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SCS ENGINEERS

Results of the 1st Quarter 2005 Groundwater Monitoring and Sampling Event

**John Riddell
4660 Hessel Road
Sebastopol, California
(Assessor's Parcel No. 062-112-005)**

File Number 01203317.00

Prepared by:

**SCS Engineers
3645 Westwind Boulevard
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To:

**Ms. Beth Lamb
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403**

June 20, 2005

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LIMITATIONS/DISCLAIMER

This report has been prepared for John Riddell with specific application to a Quarterly Monitoring event for the property located at 4660 Hessel Road, Sebastopol, California. Field activities and sampling were conducted in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

Access to the property and the surrounding area was limited by buildings, roadways, underground and above-ground utilities and other miscellaneous site and site vicinity features. Therefore, the field exploration and points of subsurface observation were somewhat restricted.

Changes in site use and conditions may occur due to variations in rainfall, temperature, water usage, or other factors. Additional information which was not available to the consultant at the time of this quarterly monitoring event or changes which may occur on the site or in the surrounding area may result in modification to the site that would impact the summary presented herein. This report is not a legal opinion.

We trust this report provides the information you require at this time and we appreciate the opportunity to work with you on this project. If you require any additional information, or have any questions, please do not hesitate to contact SCS at (707) 546-9461.

LL

Kevin L. Coker REA 7887
Ca registration fees paid through 06/30/05

6-27-05

Date



Stephen Knuttel

Stephen Knuttel PG 7674
CA registration fees paid through 07/31/05

27. JUNE, 2005

Date

Introduction

SCS Engineers (SCS) is pleased to present the results of the 1st Quarter 2005 groundwater monitoring and sampling event for 4660 Hessel Road, Sebastopol, California (Assessor's Parcel No. 062-112-005). A summary of historical site investigative activities is presented in previous reports (GeoPacific 1996; PNEG¹ 1996b, 1997, 1999a, 1999b, 2000e, 2002b; SCS 2004b, 2005b). The site is located as shown on the Site Location Map, Figure 1. General site features are as shown on the Site Plans Figures 2A and 2B.

Groundwater Monitoring

Pursuant to a letter from the North Coast Regional Water Quality Control Board (NCRWQCB) (NCRWQCB, 2004), MW-1, MW-2, MW-7, MW-8, MW-9 and MW-10 have been placed on a semi-annual sampling program which will coincide with semi-annual sampling of domestic wells DW-1, DW-MB, and DW-4. These changes are reflected herein.

Depth to groundwater measurements were collected from each of the project monitoring wells on March 22, 2005. Depth to groundwater measurements in the shallow wells ranged from surface to approximately 3.5 feet below existing ground surface (bgs). Similar groundwater measurements were also encountered in the deep wells. Note that artesian conditions were encountered in MW-3, MW-14, and MW-18. The depth to groundwater in the stand pipe was 3.87 feet bgs. The depth to groundwater measurements and casing elevations were used to calculate groundwater flow direction and gradient for both the shallow and the deep wells. Casing and groundwater elevations are reported in feet relative to mean sea level. Depth to groundwater measurements are reported in feet. The groundwater flow direction from the shallower wells was interpolated to be northwesterly at a gradient of 0.04. The groundwater flow direction from the deeper wells was interpolated to be NNW at a gradient of 0.02. Historical and current groundwater elevation data are presented in Tables 1 and 2, and on Figures 2A and 2B. Groundwater flow direction in the shallow wells at the site has been predominantly north to northwest at and around the site, at gradients ranging from 0.01 to 0.04, and in the deep wells has been predominantly north to northeast at gradients ranging from 0.01 to 0.05.

Groundwater Sampling

After depth to groundwater measurements were collected, each of the wells was checked for the presence of free product by both subjective observation and using an oil/water interface probe. No free product was reported during this monitoring event. The project monitoring wells were sampled between March 22 and 24, 2005. Each well was purged of approximately three wetted well casing volumes of groundwater or 5 gallons, whichever was greater, prior to sampling, using a submersible pump; however, the creek standpipe was not purged prior to sample collection. Field measurements

¹ Pacific Northwest EnviroNet Group, Inc. (PNEG) became part of SCS in July 2003.

were collected for temperature, pH, conductivity, turbidity, and dissolved oxygen during purging to help demonstrate that fresh groundwater was entering the well casing for sampling. Each well was allowed to recover prior to sampling. The groundwater samples were obtained using a separate disposable bailer for each well and were transferred into the appropriate containers supplied by the laboratory for analysis. The groundwater samples were labeled, stored under refrigerated conditions, and transported under Chain-of-Custody documentation to Analytical Sciences (AS) in Petaluma CA. AS is a California Department of Health Services certified laboratory for the analyses requested. Copies of AS' current certifications have been reviewed and are on file. All samples were collected following SCS' Standard Soil and Water Sampling Procedures and QA/QC Protocol. Information obtained during sampling was recorded on field sampling forms from which Well Purge Records were prepared, copies of which are presented in Appendix A. Purge water generated from well sampling is stored at the site in 55-gallon UN/DOT-approved drums, pending disposal.

Domestic Well, Stand Pipe, and Stream Sampling

Domestic well numbers identified as DW-1, DW-3, DW-4, DW-HD, DW-HD2, and DW-4615 (Figure 2A), corresponding to the domestic wells located at 4660, 4660B, 4620, and 4615 Hessel Road, have been sampled on semi-annual schedules since February 2001. Sampling of DW-4615 is being performed on a quarterly basis (NCRWQCB, 2002). DW-4615 was sampled on March 24, 2005. The domestic well sample was collected by allowing the faucet from the well to run for approximately five minutes prior to sample collection. The sample was handled and transported as previously described for the monitoring well samples.

A sample was most recently collected from the stand pipe on January 5, 2005 using a disposable bailer. The sample was handled and transported as previously described for the monitoring well samples. Stand pipe sample analytical results are presented in Table 5.

Two water samples were collected from the stream which flows northeasterly along the western side of the investigation area during previous sampling events in March and June 2004 (SCS, 2004d). Stream samples were not collected from the stream in September 2004, January, or March, 2005. All samples collected from the stream to date have been below the RDL for all target analytes. The samples were collected by lowering a clean disposable bailer into the flowing water. The samples were then transferred into the appropriate laboratory-supplied containers and handled in a similar manner as the monitoring well groundwater samples. Recent and historical stream sample results are summarized in Table 5.

Laboratory Analysis

The groundwater samples collected from the monitoring wells were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by EPA Method 5030/8015M, and for volatile organic compounds (VOCs) by EPA Method 8260B full scan reporting all peaks. The sample from the domestic well was analyzed for VOCs only.

Groundwater Analytical Results

Groundwater analytical results for the project monitoring wells sampled on March 22 and 24, 2005 are summarized in Table 4 and contoured on Figures 3A through 5B. Historical and recent groundwater analytical results are presented in Table 4, and plotted on time versus concentration diagrams, Diagrams A through F. A copy of the laboratory analytical report is also presented in Appendix B.

The sample collected from DW-4615 on March 24, 2005 was below the laboratory report detection limit (RDL) for all target analytes. A copy of the analytical report is presented in Appendix B; recent and historical domestic well sample analytical results are summarized in Table 3.

Discussion

The subject monitoring event represents the twenty third consecutive quarterly sampling of MW-3 through MW-6, the eighteenth consecutive quarterly sampling of MW-7D, MW-9D, MW-11D through MW-16, and the fifth consecutive sampling event for wells MW-17D, MW-18, MW-19D, and MW-20. TPH-g continues to be detected in both the deep and shallow wells at the site, with MW-4, MW-12, MW-15D, and MW-20 being the most heavily impacted (Figures 3A and 3B). Wells MW-4 and MW-12 show a general decrease in TPH-g concentrations occurring over time as indicated on Diagrams A and B; however MW-20 shows a general increase in TPH-g concentrations occurring over time. TPH-g concentrations in MW-15D appear to be of a more general stable trend than those in the other wells at the site. The increasing TPH-g concentration trend in wells MW-20 may indicate that the area is still being impacted from the source area with is still present at the site because of it location under the main residence at 4660 Hessel Road. A review of Diagrams C and D indicates that BTEX concentrations in the project wells are consistent with the TPH-g results, with MW-4, MW-12, MW-15D, and MW-20 appearing to be the most heavily impacted wells (Figures 4A and 4B).

As indicated on isoconcentration maps, Figures 5A and 5B, and consistent with previous results, groundwater has been impacted by the lead scavenger, ethylene dichloride² (EDC). EDC was a unique additive to leaded gasoline. Concentrations of EDC are found in the shallow groundwater adjacent to the source and in the vicinity of MW-4 and appear to be migrating into the deeper groundwater zone in the area of MW-15D and continuing north and east towards MW-13D. Because of higher concentrations of other gasoline related constituents, EDC may not show up at lower concentrations in the analytical spectrum within some monitoring wells located between the source and furthest detection points (MW-13D). EDC is fairly polar and consequently more water soluble than most of the other constituents of gasoline and tends to migrate away from the source of the groundwater contamination. EDC has a high ratio of chlorine to carbon, similar to chlorinated

² 1,2-dichloroethane or Ethylene dichloride (EDC) has been referred to as 1,2-DCA in previous reports.

pesticides, and partly because of this, degrades slowly in the environment. EDC is 10 to 50 times more resistant to degradation and is one of the most resistant chlorinated solvents when it comes to environmental degradation. The potential exists for EDC to be detectable in sites years after all trace of the leaded gasoline source is gone. Environmental dilution is likely the primary cause for the disappearance of EDC from contaminated sites.

Based on consistent non-detect (ND) results for the samples collected from the stream and the standpipe, the groundwater impact beneath the site and vicinity does not appear to be impacting the nearby stream. The measured water levels in the shallow monitoring wells and the stand pipe indicate that the shallow groundwater beneath the site was generally flowing towards the stream, i.e. the stream is a gaining stream. The stream flows in a northeasterly direction towards Laguna de Santa Rosa.

Project Update and Recommendations

The additional site investigation as proposed in SCS' Work Plan (SCS, 2004e) was completed in February 2005 and a report of findings was prepared and has been submitted to the NCRWQCB (SCS, 2005b). Sufficient information has been generated to date which indicates that the lateral and vertical extent of the groundwater impact at the site has been generally assessed to the extent feasible without access to the neighboring property north of 4620 Hessel Road. Possible deeper exploration may be warranted to the north of B-115 along Hessel Road; however, this may not provide usable information because of the lack of access to the property north of 4620 Hessel Road and it would be highly unlikely that further soil or groundwater remediation could occur along Hessel Road. Based on these site limiting factors, SCS has recommended the preparation of a Corrective Action Plan/Feasibility Study for the site without fully assessing the horizontal extent of the impact.

Furthermore, based on the ND concentration levels of all samples from the standpipe and stream samplings, SCS recommends that these sampling points be discontinued from the monitoring program.

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Attachments
File No. 01203317.00

- Figure 1: Site Location Map
Figure 2A: Site Plan Groundwater Flow Direction and Gradient - Shallow Wells for 03/22/05
Figure 2B: Site Plan Groundwater Flow Direction and Gradient - Deep Wells for 03/22/05
Figure 3A: Isoconcentration Map - TPH-g in Shallow Wells for March 2005
Figure 3B: Isoconcentration Map - TPH-g in Deep Wells for March 2005
Figure 4A: Isoconcentration Map - ΣBTEX in Shallow Wells for March 2005
Figure 4B: Isoconcentration Map - ΣBTEX in Deep Wells for March 2005
Figure 5A: Isoconcentration Map - EDC in Shallow Wells for March 2005
Figure 5B: Isoconcentration Map - EDC in Deep Wells for March 2005

Key to Diagrams and Tables

- Diagram A: TPH-g & Groundwater Elevation vs Time - Shallow Wells
Diagram B: TPH-g & Groundwater Elevation vs Time - Deep Wells
Diagram C: ΣBTEX & Groundwater Elevation vs Time - Shallow Wells
Diagram D: ΣBTEX & Groundwater Elevation vs Time - Deep Wells
Diagram E: EDC & Groundwater Elevation vs Time - Shallow Wells
Diagram F: EDC & Groundwater Elevation vs Time - Deep Wells
Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
Table 2: Groundwater Flow Direction and Gradient for Deep Wells
Table 3: Domestic Well Analytical Results
Table 4: Monitoring Well Analytical Results
Table 5: Surface Water Analytical Results

Appendix A

Well Purge Records, dated March 22 and 24, 2005

Appendix B

Analytical Sciences report #5032405, dated April 5, 2005

Analytical Sciences report #5032404, dated April 8, 2005

References
File No. 01203317.00

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- PNEG, 1999b. Report of Investigation at 4660 Hessel Road, Sebastopol, California, August 31.
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- PNEG, 2000e. Report of Investigation, 4th Quarter 2000 Monitoring Event with Domestic Well Sampling, and Interim Remediation Plan at 4660 Hessel Road, Sebastopol, California, December 29.
- PNEG, 2001a. Results of the 1st Quarter 2001 Monitoring Event and Domestic Well Sampling Event at 4660 Hessel Road, Sebastopol, California, April 3.
- PNEG, 2001b. Work Plan for 4660 Hessel Road, Sebastopol, California, July 13.
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- PNEG, 2001d. Results of the 3rd Quarter 2001 Groundwater Monitoring and Domestic Well Sampling Event at 4660 Hessel Road, Sebastopol, California, October 17.
- PNEG, 2002a. Results of the 4th Quarter 2001 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, January 14.
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- PNEG, 2002c. Results of the 1st Quarter 2002 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, May 15.
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- PNEG, 2003c. Results of the 1st Quarter 2003 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, April 24.
- PNEG, 2003d. Results of the 2nd Quarter 2003 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, July 10.
- SCS, 2003a. Results of the 3rd Quarter 2003 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, October 8.

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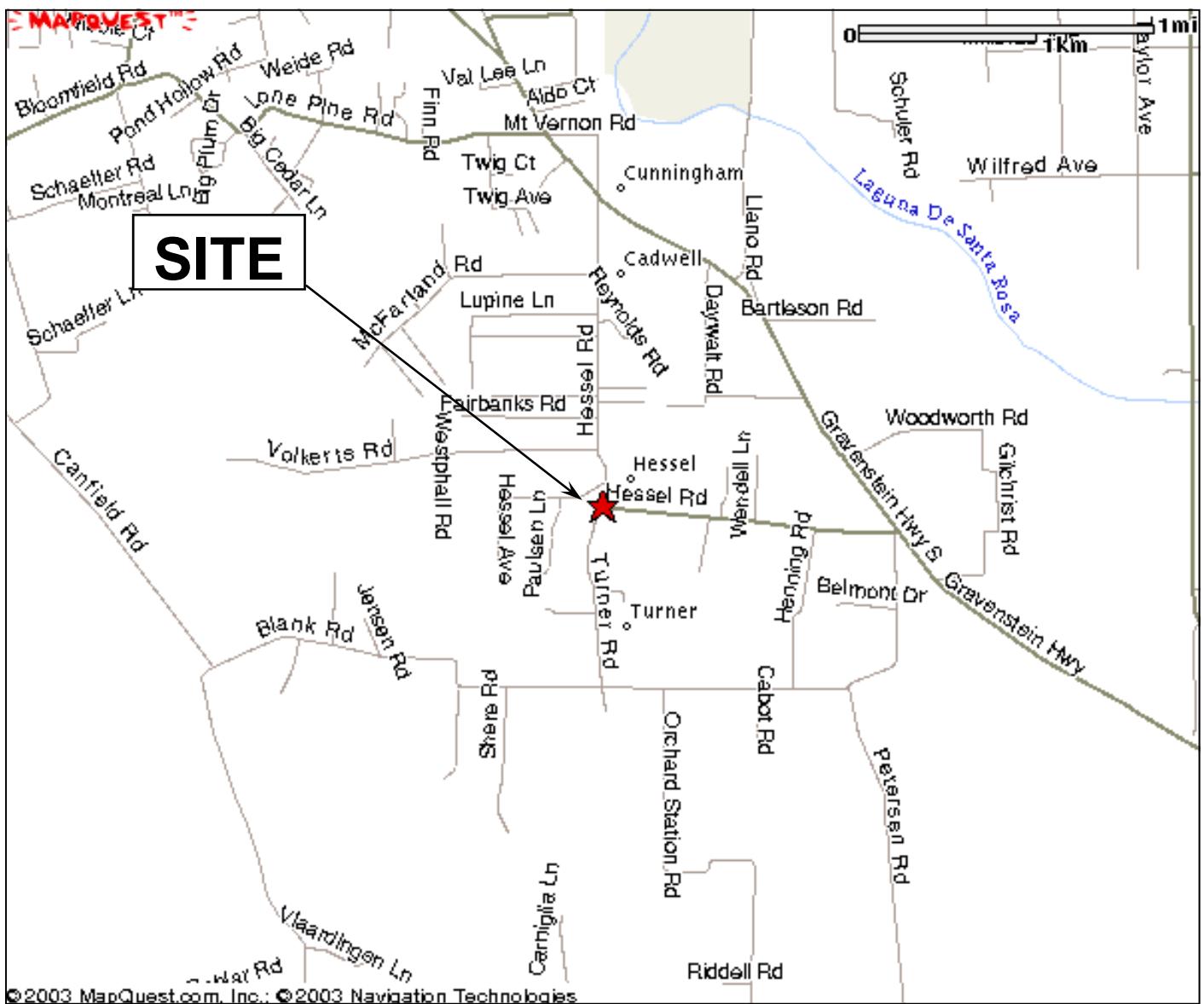
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- SCS, 2004b. Results of Additional Subsurface Investigation and Work Plan for Additional Subsurface Investigation at 4660 Hessel Road, Sebastopol, California, April 30.
- SCS, 2004c. Work Plan for Additional Subsurface Investigation at 4660 Hessel Road, Sebastopol, California, July 20.
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- SCS, 2004e. Work Plan Addendum, September 2.
- SCS, 2004f. Results of the 3rd Quarter 2004 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, November 15.
- SCS, 2005a. Results of the 4th Quarter 2004 Groundwater Monitoring and Sampling Event at 4660 Hessel Road, Sebastopol, California, April 7.
- SCS, 2005b. Results of Additional Subsurface Investigation at 4660 Hessel Road, Sebastopol, California, May 13.

Distribution List
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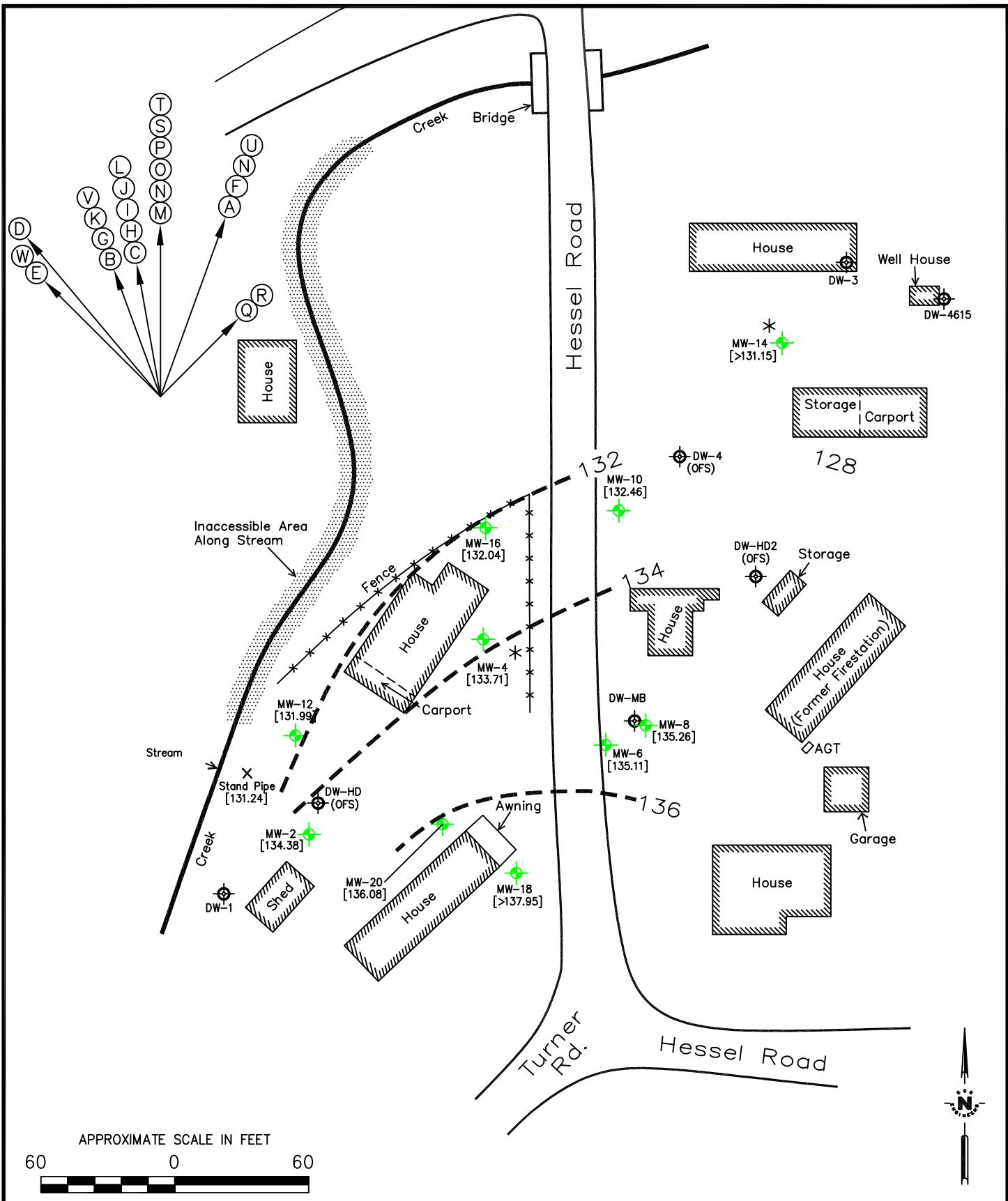
SITE LOCATION MAP

John Riddell
4660 Hessel Road
Sebastopol, California

APPROX. SCALE

FIGURE

1



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GROUNDWATER FLOW LEGEND

- Water Supply Well
- Monitoring Well Location

DW = Domestic Well

HD = Hand Dug

OFS = Out of Service

* Artesian conditions
(groundwater level at top
of well casing)

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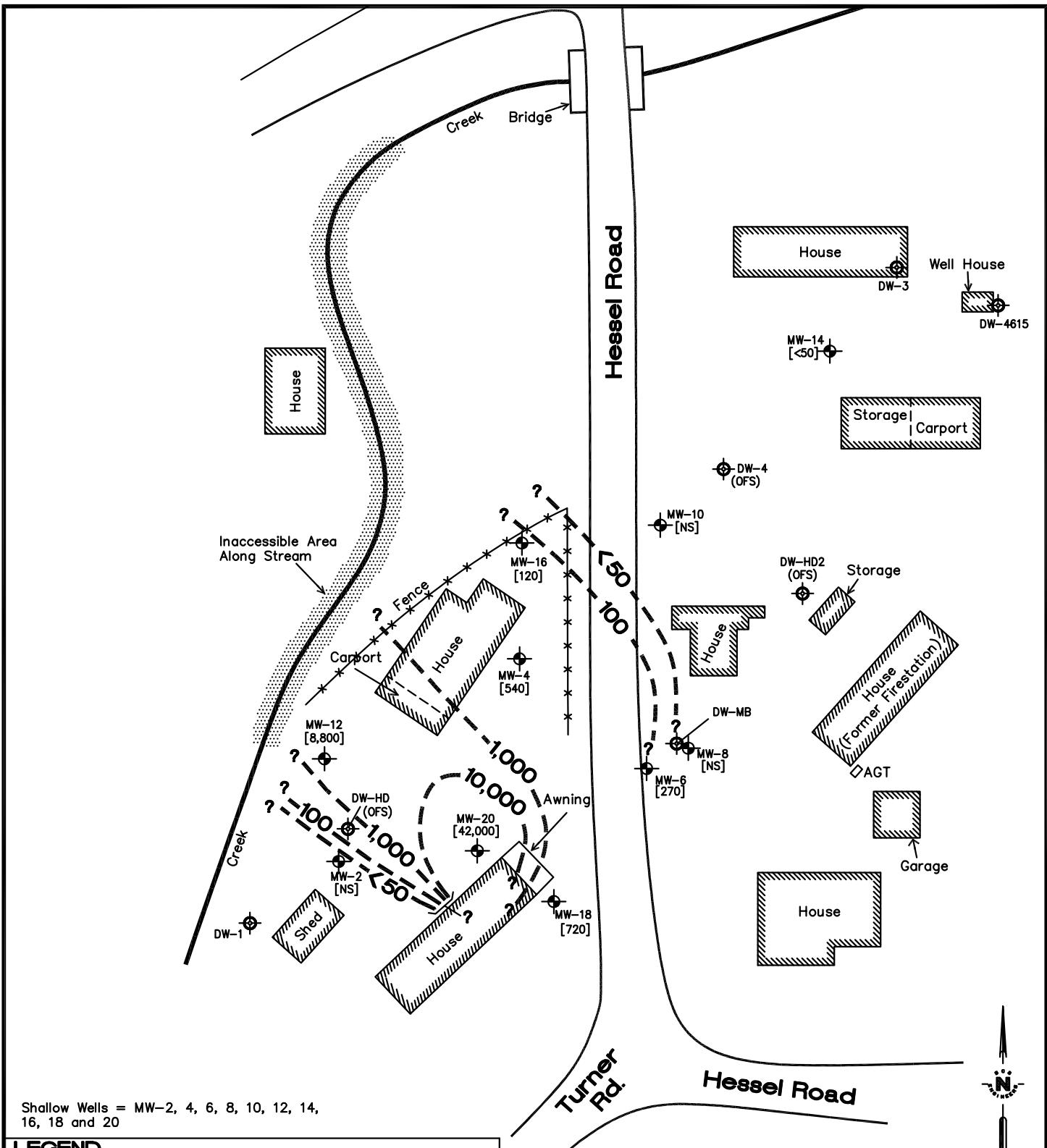
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GROUNDWATER FLOW DIRECTION & GRADIENT, SHALLOW WELLS, 3/22/05

PROJECT TITLE: JOHN RIDDELL
4660 HESSEL ROAD
SEBASTOPOL, CALIFORNIA

SCALE:
1" = 60'

FIGURE NO.:
2A
2 OF 2

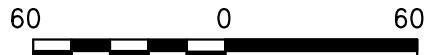


Shallow Wells = MW-2, 4, 6, 8, 10, 12, 14,
16, 18 and 20

LEGEND

Monitoring Well Location	Water Supply Well
NS = Not Sampled	
Isoconcentration Line	DW = Domestic Well
TPH-g, ug/L	HD = Hand Dug
	OFS = Out of Service

APPROXIMATE SCALE IN FEET



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TPH - IN SHALLOW WELLS FOR MARCH 2005

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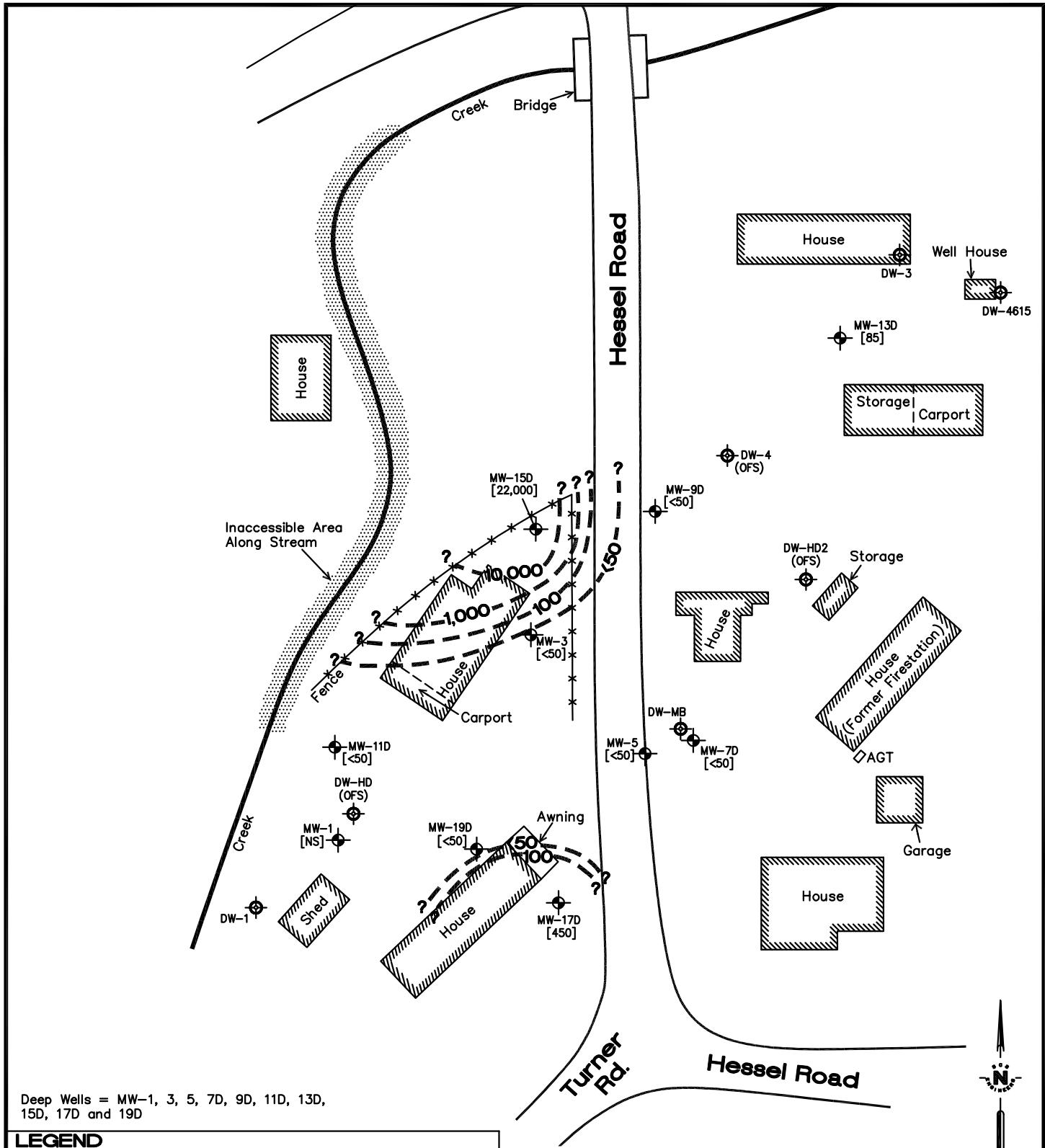
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FIGURE NO.:

3A



Deep Wells = MW-1, 3, 5, 7D, 9D, 11D, 13D, 15D, 17D and 19D

LEGEND

-  Monitoring Well Location
 NS = Not Sampled

 Water Supply Well
 DW = Domestic Well

 Isoconcentration Line
 HD = Hand Dug

 TPH-g, ug/L
 OFS = Out of Service

APPROXIMATE SCALE IN FEET

A horizontal scale with numerical labels at -60, 0, and 60. There are tick marks every 10 units along the scale.

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DATE: 4/20/05 CHK. BY: APP. BY: SK

DATE:	4/20/05	CAR. BY:	APP. BY:	SK
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**ISOCONCENTRATION MAP
IN DEEP WELLS FOR MARCH 2005**

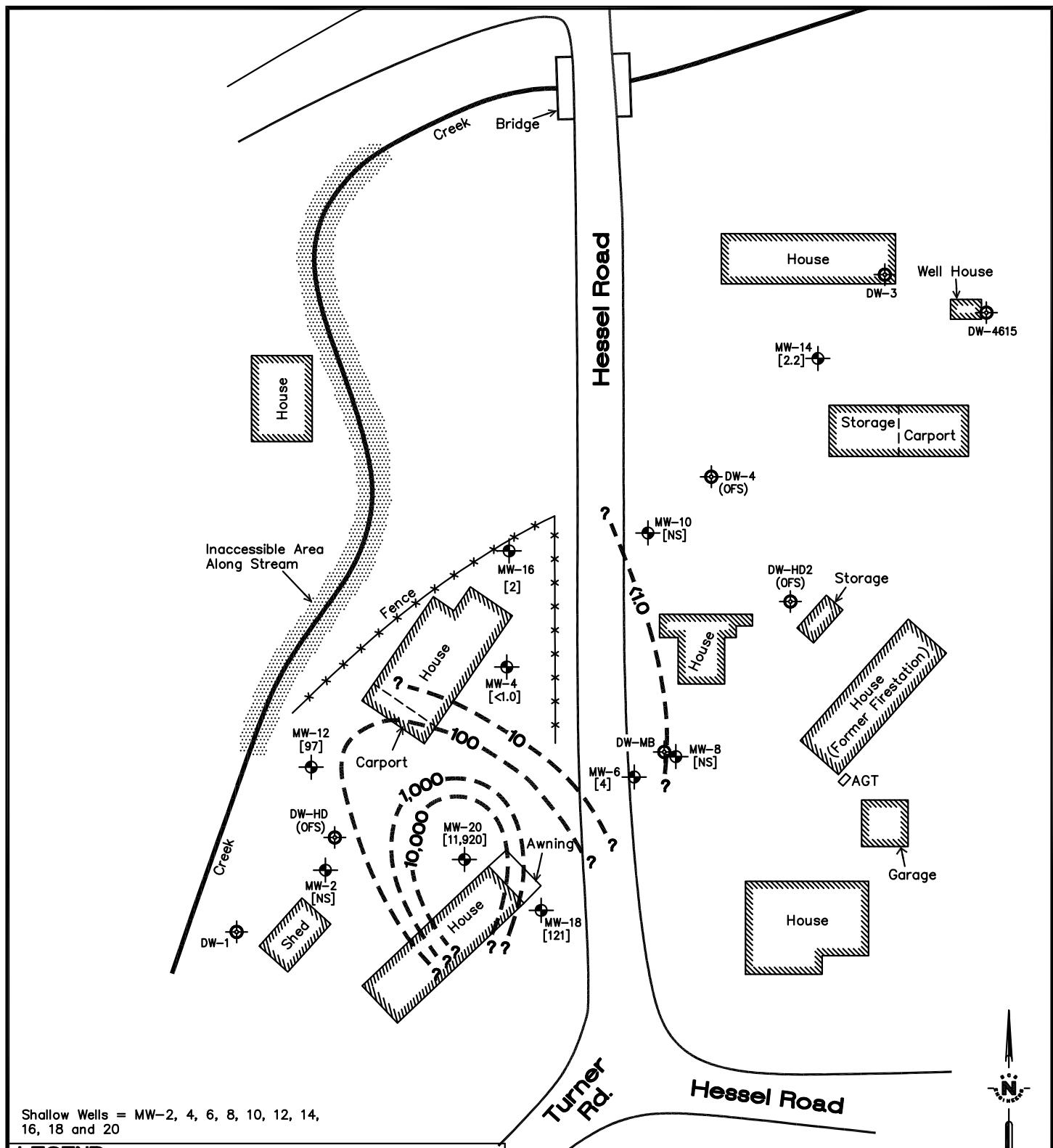
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SEBASTOPOL, CALIFORNIA

FIGURE NO.:

3B



Shallow Wells = MW-2, 4, 6, 8, 10, 12, 14,
16, 18 and 20

LEGEND

●	Monitoring Well Location	●	Water Supply Well
NS	= Not Sampled	DW	= Domestic Well
—	Isoconcentration Line	HD	= Hand Dug
ΣBTEX	ug/L	OFS	= Out of Service

APPROXIMATE SCALE IN FEET



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SHEET TITLE: ISOCONCENTRATION MAP

ΣBTEX IN SHALLOW WELLS FOR MARCH 2005

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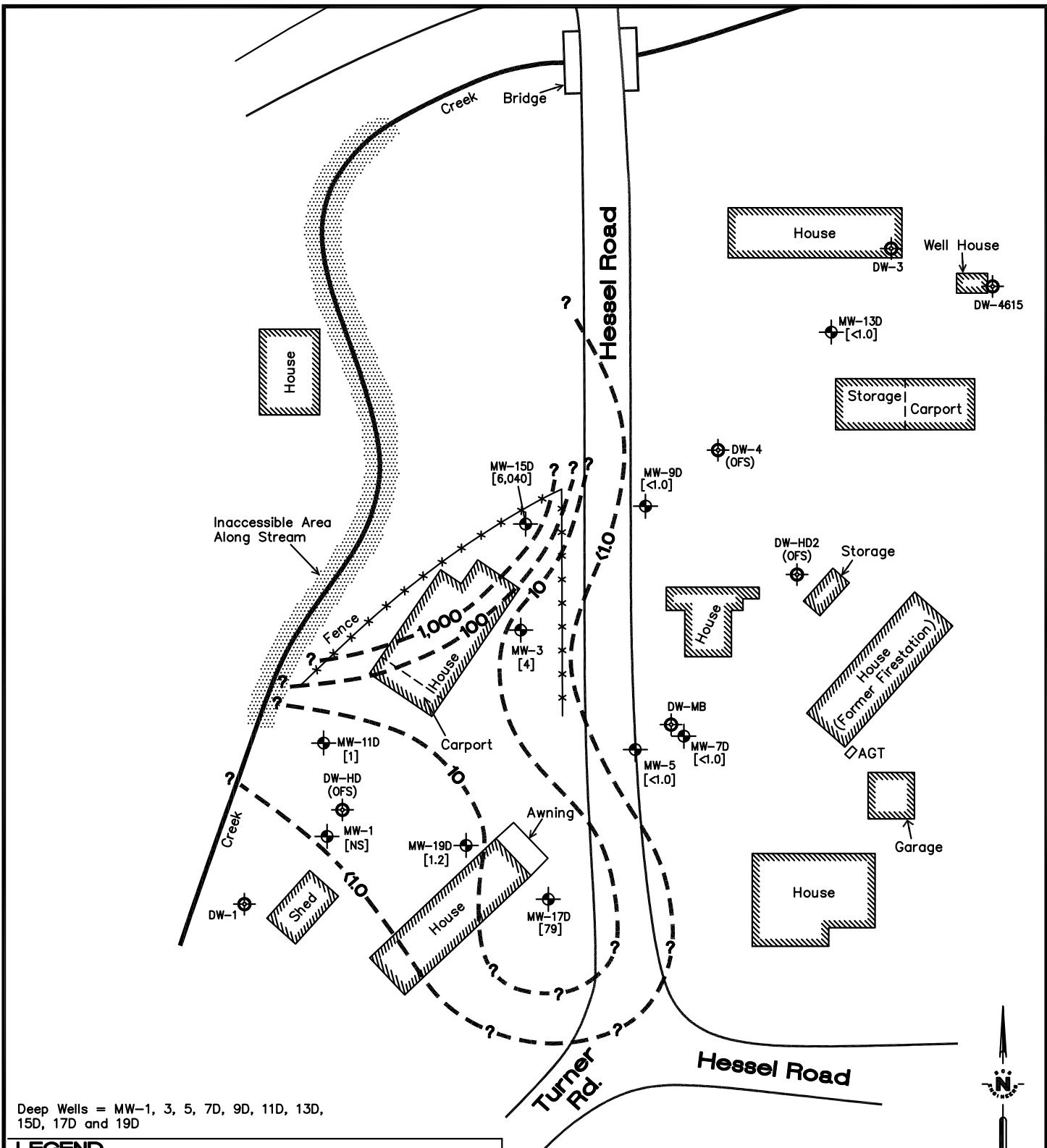
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4660 HESSEL ROAD
SEBASTOPOL, CALIFORNIA

FIGURE NO.:

4A



Deep Wells = MW-1, 3, 5, 7D, 9D, 11D, 13D,
15D, 17D and 19D

LEGEND

Monitoring Well Location	Water Supply Well
NS = Not Sampled	DW = Domestic Well
— Isoconcentration Line	HD = Hand Dug
ΣBTEX, ug/L	OFS = Out of Service

APPROXIMATE SCALE IN FEET



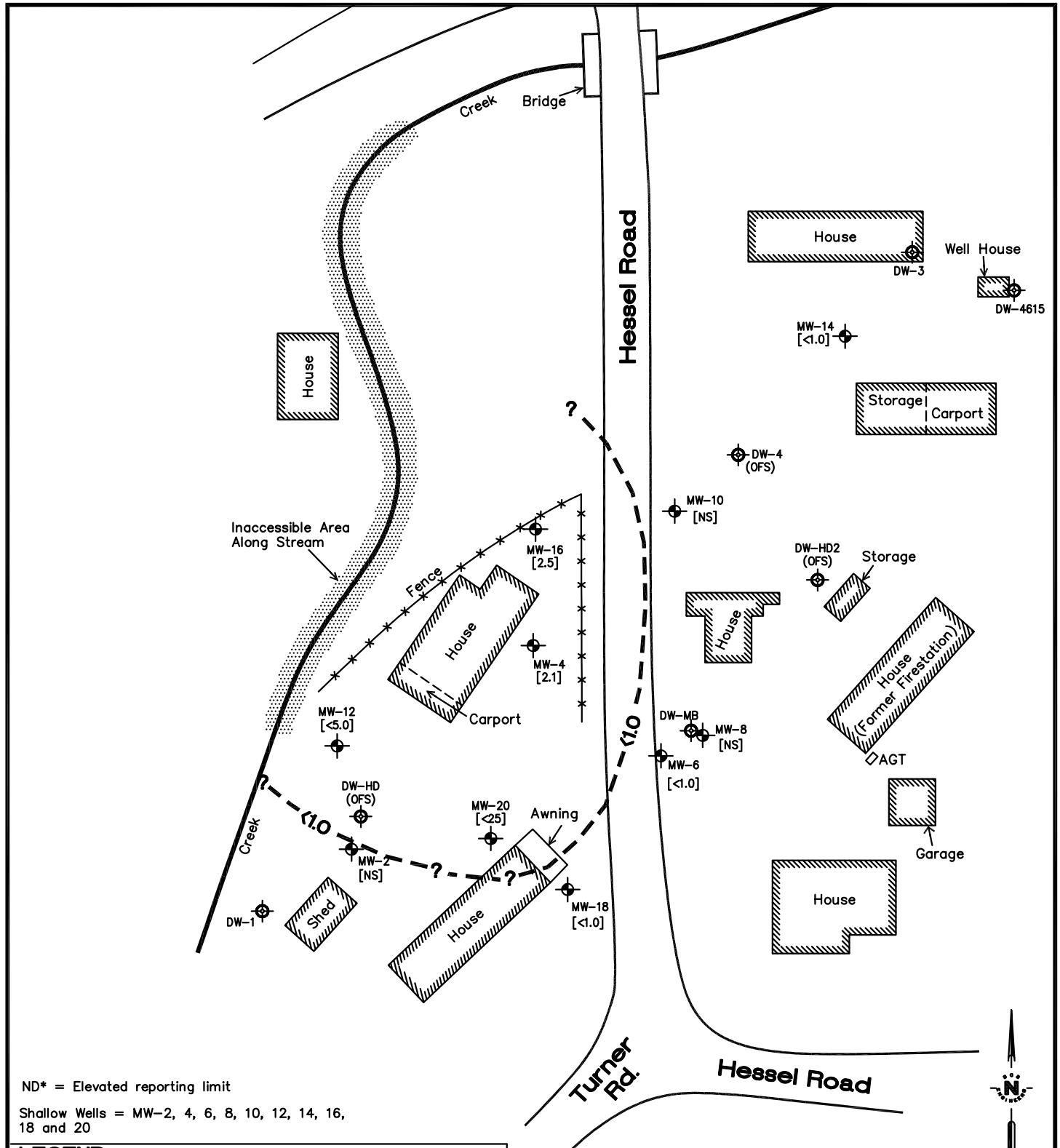
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SHEET TITLE: ISOCONCENTRATION MAP
ΣBTEX IN DEEP WELLS FOR MARCH 2005

PROJECT TITLE: JOHN RIDDELL
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SEBASTOPOL, CALIFORNIA

SCALE: 1" = 60'
FIGURE NO.: 4B



ND* = Elevated reporting limit

Shallow Wells = MW-2, 4, 6, 8, 10, 12, 14, 16,
18 and 20

LEGEND

-  Monitoring Well Location
 NS = Not Sampled

 Water Supply Well
 DW = Domestic Well

 Isoconcentration Line
 1,2-EDC, ug/L

HD = Hand Dug
 OFS = Out of Service

APPROXIMATE SCALE IN FEET

A horizontal scale bar with numerical markings at 60, 0, and 60. The bar is divided into three equal segments by vertical tick marks. The first segment is white, the middle segment is black, and the third segment is white.

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SHEET TITLE:

ISOCONCENTRATION MAP
EDC IN SHALLOW WELLS FOR MARCH 2005

PROJECT TITLE:

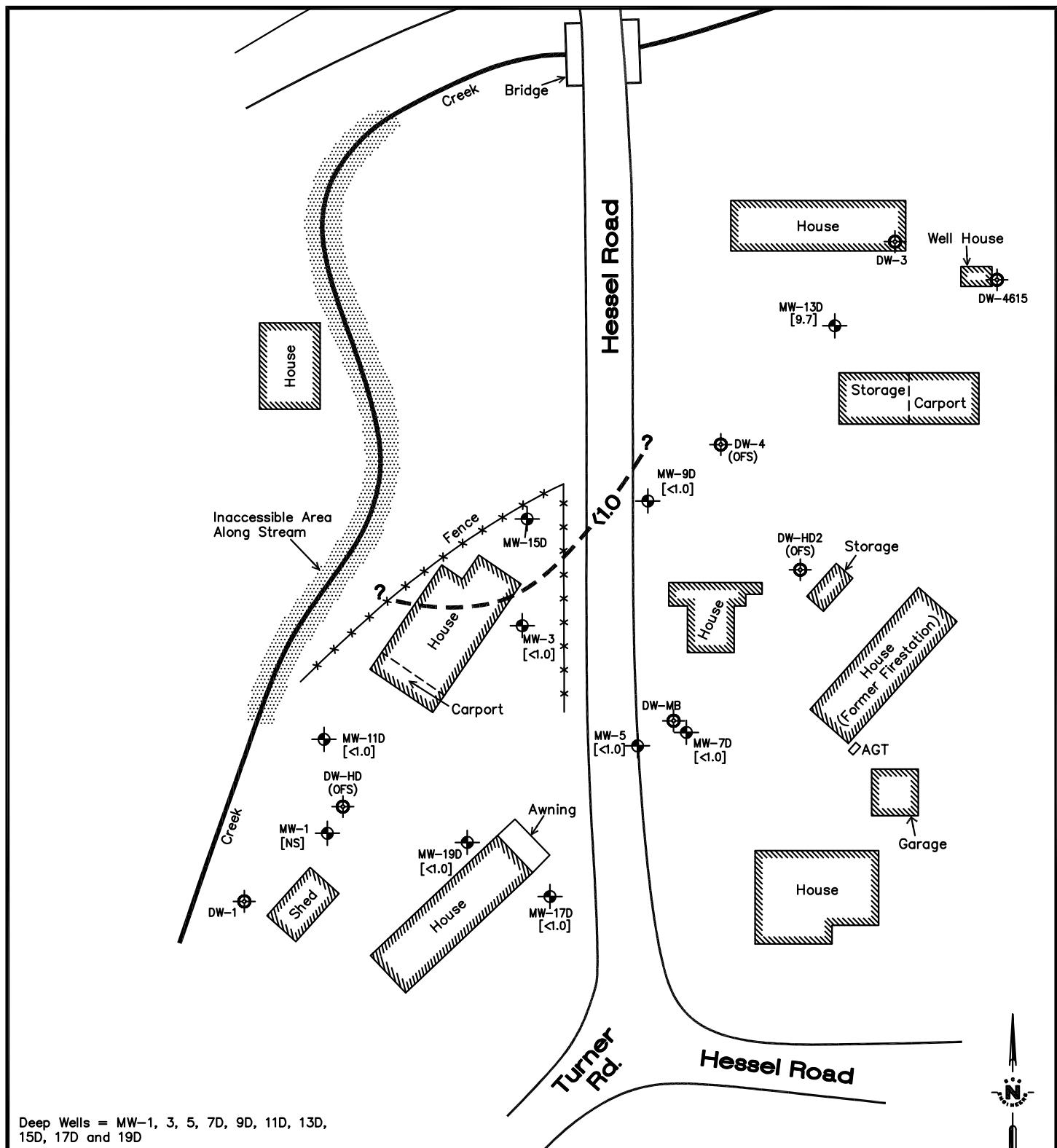
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SEBASTOPOL, CALIFORNIA

SCALE:

$$1'' = 60'$$

FIGURE NO.:

5A

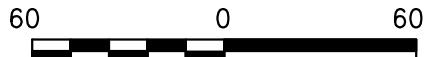


Deep Wells = MW-1, 3, 5, 7D, 9D, 11D, 13D,
15D, 17D and 19D

LEGEND

Monitoring Well Location NS = Not Sampled	Water Supply Well
Isoconcentration Line 1,2-EDC, ug/L	DW = Domestic Well
	HD = Hand Dug
	OFS = Out of Service

APPROXIMATE SCALE IN FEET



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PROJ. NO.: 3317.00	DWN. BY: AJH	ACAD FILE: 3317.00-IS05B-3449
DATE: 4/20/05	CHK. BY: SK	APP. BY: SK

SHEET TITLE: ISOCONCENTRATION MAP
EDC IN DEEP WELLS FOR MARCH 2005

SCALE: 1" = 60'
FIGURE NO.: 5B

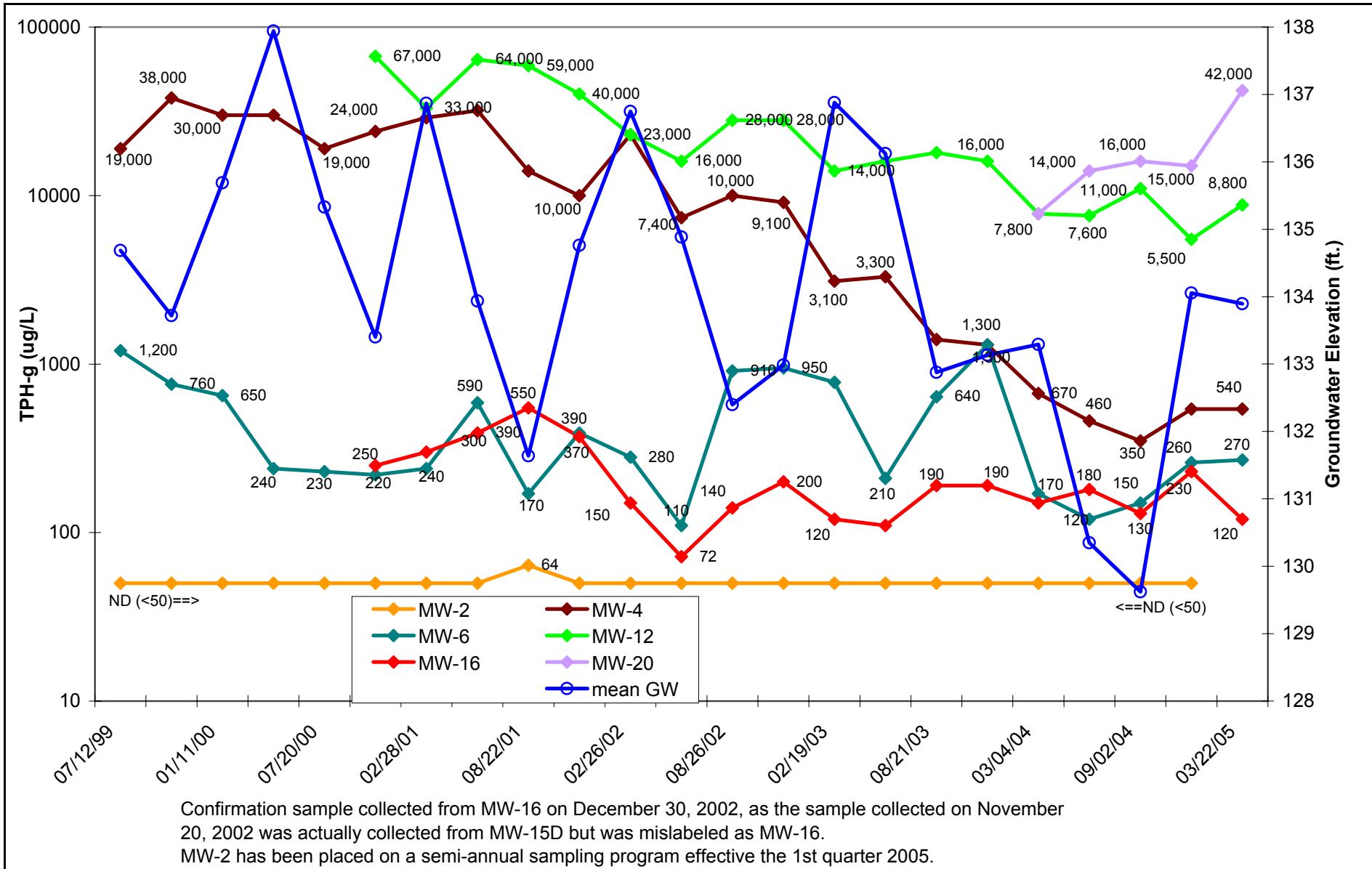
PROJECT TITLE: JOHN RIDDELL
4660 HESSEL ROAD
SEBASTOPOL, CALIFORNIA

Key to Diagrams and Tables
4660 Hessel Road, Sebastopol

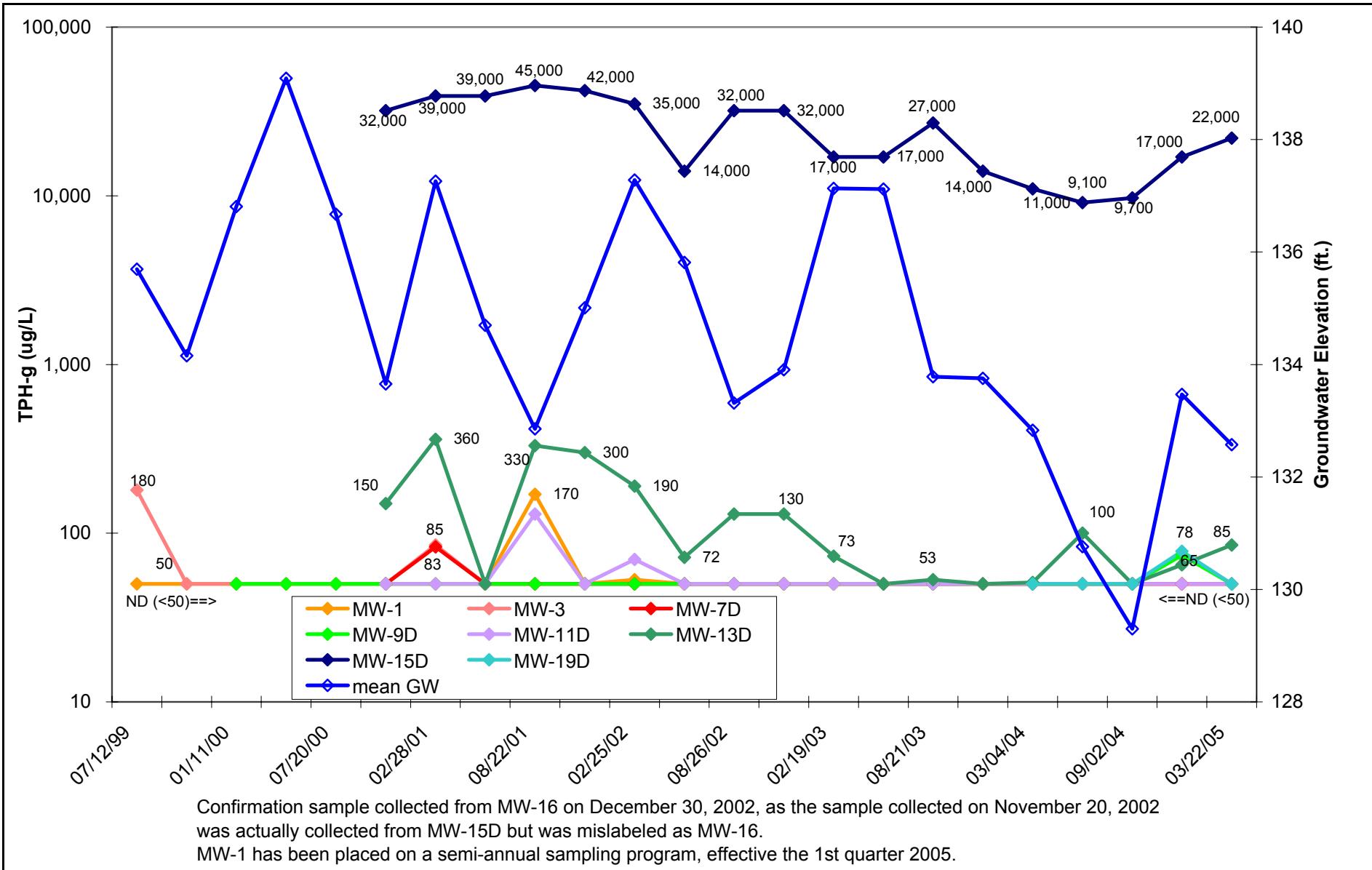
TPH-g	=	Total petroleum hydrocarbons in the gasoline range
TPH-d	=	Total petroleum hydrocarbons in the diesel range
TPH-mo	=	Total petroleum hydrocarbons in the motor oil range
TPH-k	=	Total petroleum hydrocarbons in the kerosene range
B	=	Benzene
T	=	Toluene
E	=	Ethylbenzene
X	=	Xylenes
MTBE	=	Methyl tertiary butyl ether
DIPE	=	Diisopropyl ether
ETBE	=	Ethyl tertiary butyl ether
TAME	=	Tertiary amyl methyl ether
TBA	=	Tert-butyl alcohol
Five Oxys	=	MTBE, DIPE, ETBE, TAME, TBA
Pb Scavs	=	Lead Scavengers (EDC and EDB)
EDC	=	Ethylene Dichloride ²
EDB	=	Ethylene Dibromide ³
VOCs	=	Volatile Organic Compounds
µg/L	=	Micrograms per liter
RDL	=	Report detection limit
ND	=	Below the laboratory report detection limit
NA	=	Not analyzed
msl	=	Mean sea level
INF	=	Influent
EFF	=	Effluent

² EDC has been referred to as 1,2-dichloroethane (1,2-DCA) in previous reports

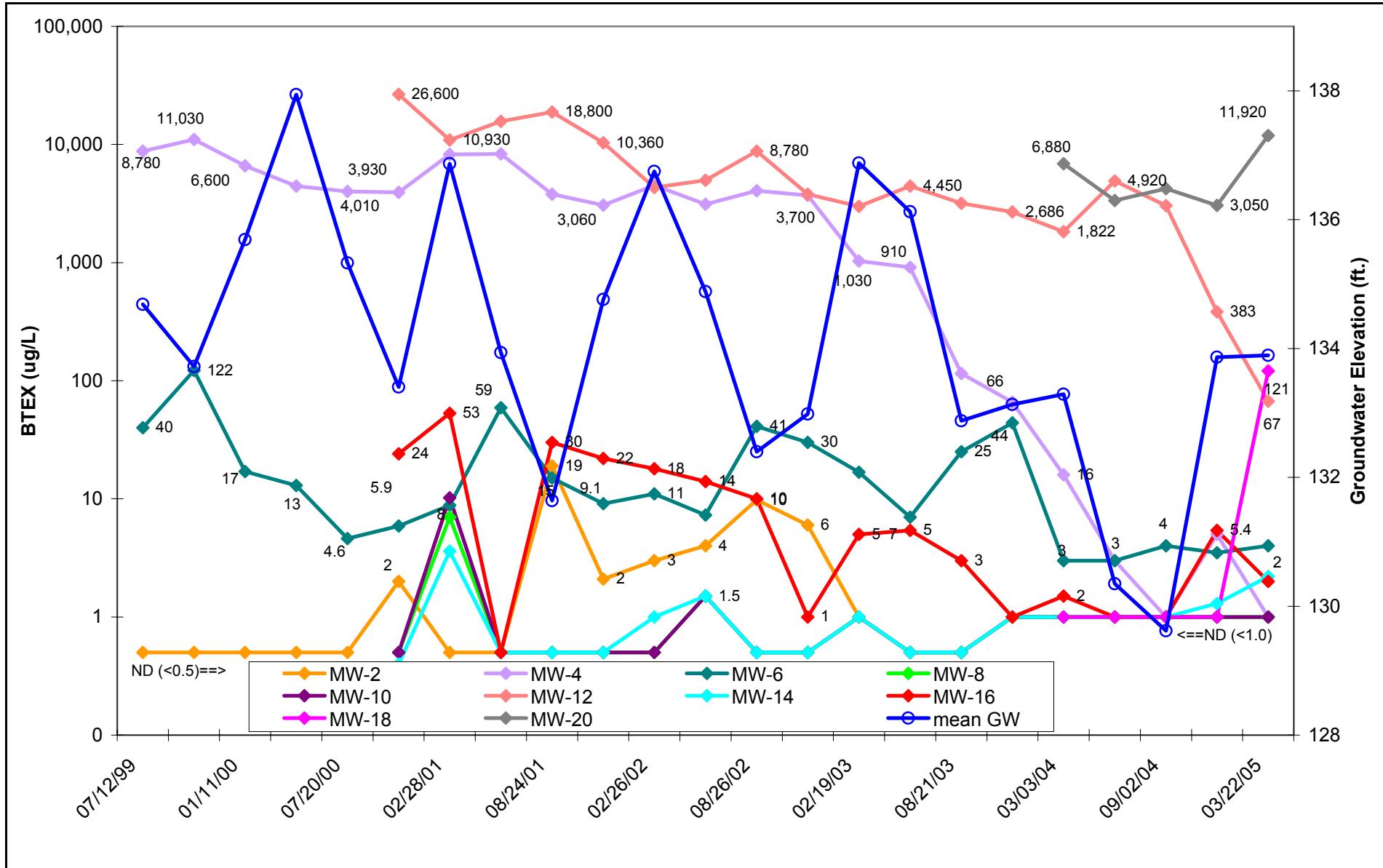
³ EDB has been referred to as 1,2-dibromoethane (1,2-DBA) in previous reports



SCS ENGINEERS	TPH-g & GROUNDWATER ELEVATION vs TIME - Shallow Wells	DIAGRAM
3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA Drawn By: KLC	John Riddell 4660 Hessel Road, Sebastopol, California Job Number: 01203317.00	A
		DATE: 04/12/05



SCS ENGINEERS	TPH-g & GROUNDWATER ELEVATION vs TIME - Deep Wells	DIAGRAM
3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA Drawn By: KLC	John Riddell 4660 Hessel Road, Sebastopol, California Job Number: 01203317.00	B
		DATE: 04/13/05



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA

Drawn By: KLC

File Name: BTEX-GW

BTEX & GROUNDWATER ELEVATION vs TIME - Shallow Wells

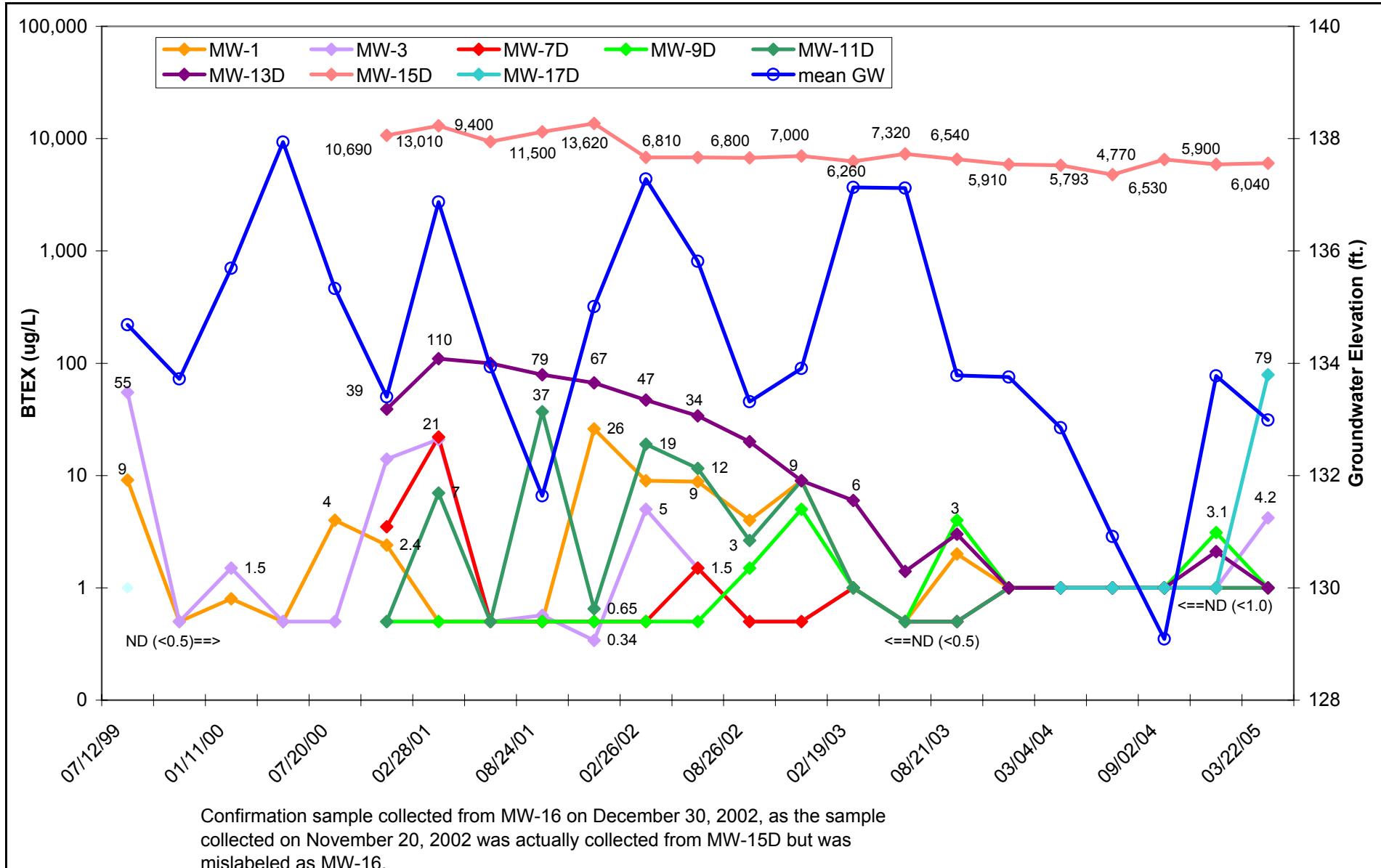
John Riddell
4660 Hessel Road, Sebastopol, California

Job Number: 01203317.00

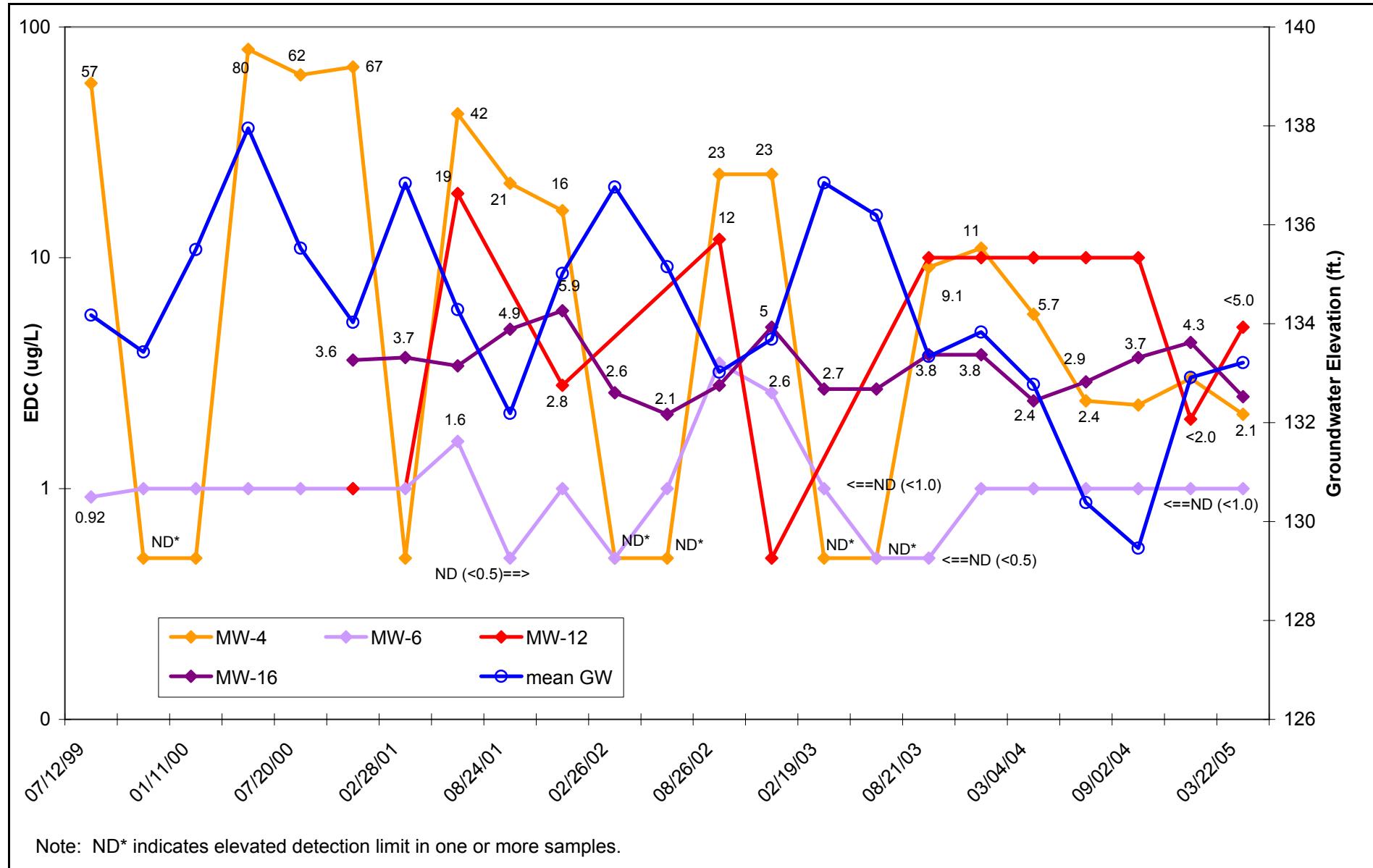
DIAGRAM

C

DATE: 04/13/05

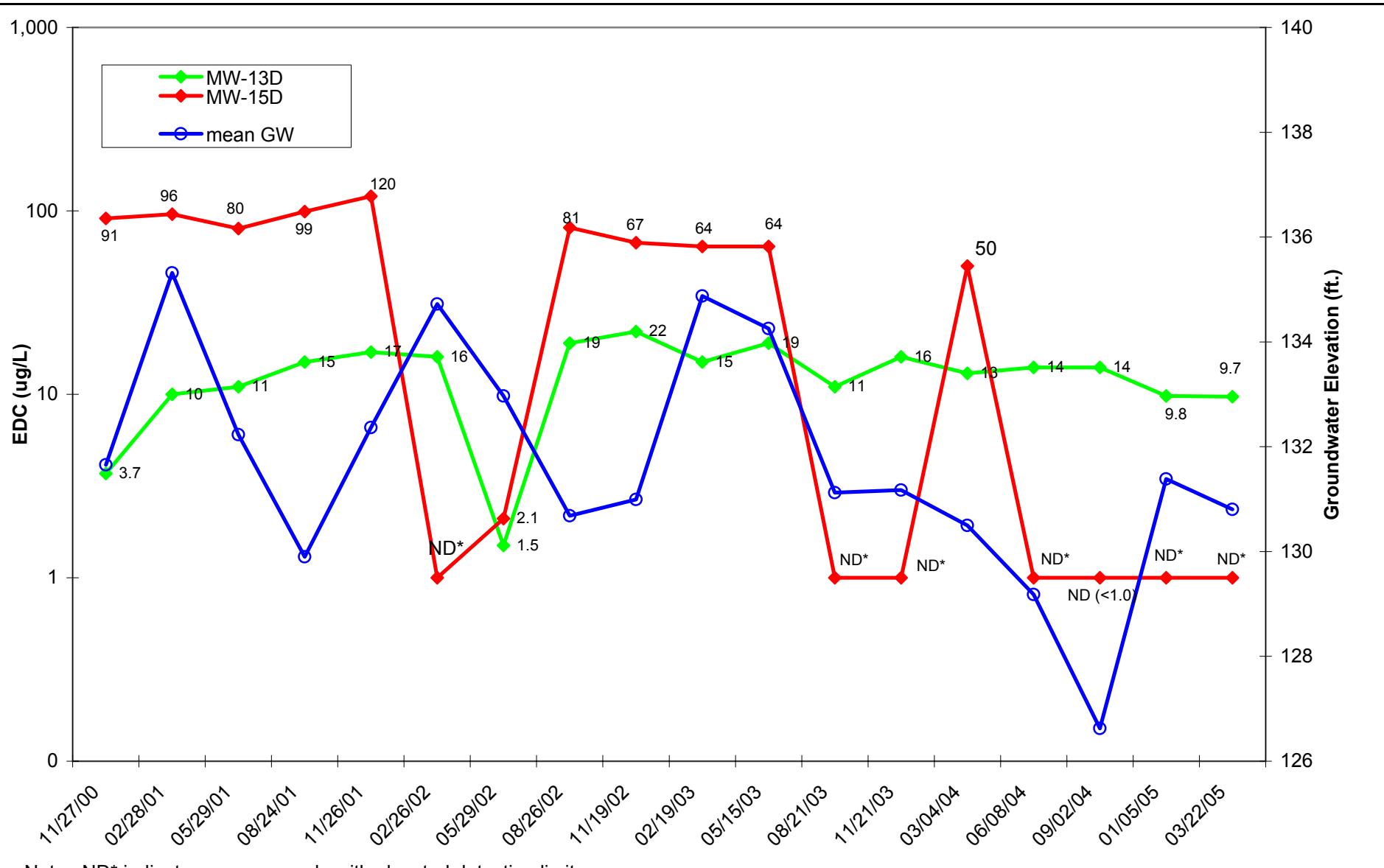


SCS ENGINEERS	ΣBTEX & GROUNDWATER ELEVATION vs TIME - Deep Wells	DIAGRAM
3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA Drawn By: KLC	John Riddell 4660 Hessel Road, Sebastopol, California File Name: BTEX-GW Job Number: 01203317.00	D DATE: 04/13/05



Note: ND* indicates elevated detection limit in one or more samples.

SCS ENGINEERS	EDC & GROUNDWATER ELEVATION vs TIME - Shallow Wells	DIAGRAM
3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA	John Riddell 4660 Hessel Road, Sebastopol, California	E
Drawn By: KLC	File Name: EDC-GW	DATE: 04/13/05



Note: ND* indicates one or sample with elevated detection limit.

SCS ENGINEERS	EDC & GROUNDWATER ELEVATION vs TIME - Deep Wells	DIAGRAM
3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA Drawn By: KLC	John Riddell 4660 Hessel Road, Sebastopol, California File Name: EDC-GW Job Number: 01203317.00	F DATE: 04/13/05

Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
4660 Hessel Road, Sebastopol

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-2	07/12/99	140.03	4.32	135.71	N20°E i = 0.02
MW-4		137.78	3.88	133.91	
MW-6		140.00	5.56	134.44	
MW-2	10/20/99	140.03	5.73	134.30	N20°W i = 0.04
MW-4		137.78	5.38	132.40	
MW-6		140.00	5.54	134.46	
MW-2	01/11/00	140.03	3.96	136.07	N10°W i = 0.02
MW-4		137.78	2.69	135.09	
MW-6		140.00	4.09	135.91	
MW-2	04/18/00	140.03	2.12	137.91	N40°W i = 0.04
MW-4		137.78	0.68	137.10	
MW-6		140.00	1.19	138.81	
MW-2	07/20/00	140.03	5.09	134.94	N45°W i = 0.02
MW-4		137.78	2.98	134.80	
MW-6		140.00	3.75	136.25	
MW-2	11/27/00	140.03	5.47	134.56	NNE i = 0.025
MW-4		137.78	3.58	134.20	
MW-6		140.00	4.89	135.11	
MW-8		140.24	5.30	134.94	
MW-10		136.89	5.53	131.36	
MW-12		139.38	5.65	133.73	
MW-14		135.18	4.95	130.23	
MW-16		137.38	4.30	133.08	
MW-2	02/28/01	140.03	2.04	137.99	N20°W i = 0.02
MW-4		137.78	0.57	137.21	
MW-6		140.00	1.16	138.84	
MW-8		140.24	1.64	138.60	
MW-10		136.89	0.85	136.04	
MW-12		139.39	3.75	135.64	
MW-14		135.18	0.21	134.97	
MW-16		137.38	1.72	135.66	
MW-2	05/29/01	140.03	4.78	135.25	N10°W i = 0.03
MW-4		137.78	3.31	134.47	
MW-6		140.00	4.42	135.58	
MW-8		140.24	4.82	135.42	
MW-10		136.89	4.48	132.41	
MW-12		139.38	5.48	133.90	
MW-14		135.18	3.92	131.26	
MW-16		137.38	4.18	133.20	
MW-2	08/22/01	140.03	7.0	133.03	N10°W i = 0.02
MW-4		137.78	5.50	132.28	
MW-6		140.00	6.88	133.12	
MW-8		140.24	7.39	132.85	
MW-10		136.89	7.30	129.59	
MW-12		139.38	6.95	132.43	
MW-14		135.18	6.30	128.88	
MW-16		137.38	6.46	130.92	

Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
4660 Hessel Road, Sebastopol

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-2	11/26/01	140.03	3.45	136.58	N10°W i = 0.02
MW-4		137.78	2.45	135.33	
MW-6		140.00	3.70	136.30	
MW-8		140.24	3.80	136.44	
MW-10		136.89	3.76	133.13	
MW-12		139.38	5.22	134.16	
MW-14		135.18	3.32	131.86	
MW-16		137.38	3.10	134.28	
MW-2	02/25/02	140.03	2.31	137.72	N20°W i = 0.03
MW-4		137.78	0.39	137.39	
MW-6		140.00	1.36	138.64	
MW-8		140.24	1.85	138.39	
MW-10		136.89	0.95	135.94	
MW-12		139.38	3.72	135.66	
MW-14		135.18	0.30	134.88	
MW-16		137.38	2.01	135.37	
MW-2	05/29/02	140.03	4.12	135.91	Northerly i = 0.02
MW-4		137.78	2.0	135.78	
MW-6		140.00	3.36	136.64	
MW-8		140.24	3.86	136.38	
MW-10		136.89	3.23	133.66	
MW-12		139.38	5.26	134.12	
MW-14		135.18	2.66	132.52	
MW-16		137.38	3.31	134.07	
MW-2	08/26/02	140.03	6.05	133.98	Northerly i = 0.01
MW-4		137.78	4.46	133.32	
MW-6		140.00	6.51	133.49	
MW-8		140.24	7.38	132.86	
MW-10		136.89	6.34	130.55	
MW-12		139.38	6.0	133.38	
MW-14		135.18	5.47	129.71	
MW-16		137.38	5.49	131.89	
MW-2	11/19/02	140.03	5.35	134.68	N to NE i = 0.02
MW-4		137.78	3.78	134.00	
MW-6		140.00	5.75	134.25	
MW-8		140.24	6.48	133.76	
MW-10		136.89	5.92	130.97	
MW-12		139.38	5.50	133.88	
MW-14		135.18	5.46	129.72	
MW-16		137.38	4.77	132.61	
MW-2	02/18/03	140.03	2.03	138.00	Apparent N-NE Gradient not calculated
MW-4		137.78	0.40	137.38	
MW-6		140.00	1.31	138.69	
MW-8		140.24	1.78	138.46	
MW-10		136.89	0.80	136.09	
MW-12		139.38	3.65	135.73	
MW-14		135.18	0.10	135.08	
MW-16		137.38	1.79	135.59	

Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
4660 Hessel Road, Sebastopol

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)	
MW-2	05/14/03	140.03	2.82	137.21	Northerly i = 0.02	
MW-4		137.78	0.98	136.80		
MW-6		140.00	2.04	137.96		
MW-8		140.24	2.53	137.71		
MW-10		136.89	1.74	135.15		
MW-12		139.38	4.31	135.07		
MW-14		135.18	1.02	134.16		
MW-16		137.38	2.45	134.93		
MW-2	08/20/03	140.03	5.41	134.62	Northeasterly i = 0.01	
MW-4		137.78	4.05	133.73		
MW-6		140.00	5.98	134.02		
MW-8		140.24	6.77	133.47		
MW-10		136.89	5.77	131.12		
MW-12		139.38	5.82	133.56		
MW-14		135.18	4.72	130.46		
MW-16		137.38	5.33	132.05		
MW-2	11/20/03	140.03	5.33	134.70	Northeasterly i = 0.02	
MW-4		137.78	3.47	134.31		
MW-6		140.00	5.45	134.55		
MW-8		140.24	6.13	134.11		
MW-10		136.89	5.90	130.99		
MW-12		139.38	5.58	133.80		
MW-14		135.18	5.25	129.93		
MW-16		137.38	4.71	132.67		
MW-2	03/02/04*	135.97	2.56	133.41	Northerly i = 0.03	
MW-4		133.74	0.10	133.64		
MW-6		135.97	1.60	134.37		
MW-8		136.20	1.57	134.63		
MW-10		132.85	1.0	131.85		
MW-12		135.32	3.79	131.53		
MW-14		131.15	Artesian conditions			
MW-16		133.33	1.78	131.55		
MW-18		137.95	1.0	136.95		
MW-20		136.93	1.59	135.34		
Stand Pipe		135.11	5.20**	129.91		
Bridge		132.97	7.72	125.25		

* Previously existing wells were re-surveyed and MW-18 and MW-20 were surveyed to msl on February 26 and March 4, 2004.

** Measurement collected on March 12, 2004.

Table 1: Groundwater Flow Direction and Gradient for Shallow Wells
4660 Hessel Road, Sebastopol

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)	
MW-2	06/07/04	135.97	4.14	131.83	Northerly i = 0.03	
MW-4		133.74	2.88	130.86		
MW-6		135.97	4.39	131.58		
MW-8		136.20	5.05	131.15		
MW-10		132.85	4.34	128.51		
MW-12		135.32	5.43	129.89		
MW-14		131.15	3.58	127.57		
MW-16		133.33	4.12	129.21		
MW-18		137.95	4.24	133.71		
MW-20		136.93	4.38	132.55		
Stand Pipe		135.11	6.14	128.97		
Bridge		132.97	7.84	125.13		
MW-2	09/02/04	135.97	2.87	133.10	N-NE i = 0.03	
MW-4		133.74	3.97	129.77		
MW-6		135.97	5.61	130.36		
MW-8		136.20	6.32	129.88		
MW-10		132.85	5.99	126.86		
MW-12		135.32	5.35	129.97		
MW-14		131.15	4.86	126.29		
MW-16		133.33	5.58	127.75		
MW-18		137.95	4.47	133.48		
MW-20		136.93	4.33	132.60		
Stand Pipe		135.11	6.62	128.49		
Bridge		132.97	7.88	125.09		
MW-2	01/04/05	135.97	1.33	134.64	N-NW i = 0.05	
MW-4		133.74	Artesian conditions			
MW-6		135.97	0.56	135.41		
MW-8		136.20	1.15	135.05		
MW-10		132.85	0.39	132.46		
MW-12		135.32	4.11	131.21		
MW-14		131.15	Artesian conditions			
MW-16		133.33	1.21	132.12		
MW-18		137.95	0.47	137.48		
MW-20		136.93	0.76	136.17		
Stand Pipe		135.11	NM			
Bridge		132.97	NM			
MW-2	03/22/05	135.97	0.59	135.38	NW i = 0.04	
MW-4		133.74	0.03	133.71		
MW-6		135.97	0.86	135.11		
MW-8		136.20	0.94	135.26		
MW-10		132.85	0.39	132.46		
MW-12		135.32	3.33	131.99		
MW-14		131.15	Artesian conditions			
MW-16		133.33	1.29	132.04		
MW-18		137.95	Artesian conditions			
MW-20		136.93	0.85	136.08		
Stand Pipe		135.11	3.87	131.24		
Bridge		132.97	NM			

Notes:

Groundwater flow direction rounded to nearest 5 degrees.

Table 2: Groundwater Flow Direction and Gradient for Deep Wells
4660 Hessel Road, Sebastopol

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)	
MW-1	07/12/99	139.76	2.26	137.50	N85°E i = 0.02	
MW-3		137.79	2.41	135.38		
MW-5		139.40	5.20	134.20		
MW-1	10/20/99	139.76	3.13	136.63	N75°E i = 0.03	
MW-3		137.79	4.26	133.53		
MW-5		139.40	7.10	132.30		
MW-1	01/11/00	139.76	2.0	137.76	N15°E i = 0.02	
MW-3		137.79	1.97	135.82		
MW-5		139.40	2.56	136.84		
MW-1	04/18/00	139.76	0.41	139.35	Not calculated	
MW-3		137.79	Artesian conditions encountered			
MW-5		139.40	0.57	138.83		
MW-1	07/20/00	139.76	2.59	137.17	N5°E i = 0.01	
MW-3		137.79	1.63	136.16		
MW-5		139.40	2.72	136.68		
MW-1	11/27/00	139.75	3.49	136.26	N35°E i = 0.025	
MW-3		137.79	2.29	135.50		
MW-5		139.40	3.62	135.78		
MW-7D		140.14	4.32	135.82		
MW-9D		136.92	7.13	129.29		
MW-11D		139.41	2.74	136.67		
MW-13D		135.30	6.84	128.46		
MW-15D		137.22	5.78	131.44		
MW-1	02/28/01	139.75	0.56	139.19	N5°E i = 0.02	
MW-3		137.79	Artesian conditions			
MW-5		139.40	0.17	139.23		
MW-7D		140.14	0.79	139.35		
MW-9D		136.92	2.91	134.01		
MW-11D		139.41	0.04	139.37		
MW-13D		135.30	0.59	134.71		
MW-15D		137.22	2.26	134.96		
MW-1	05/29/01	139.75	2.65	137.10	North i = 0.05	
MW-3		137.79	1.70	136.09		
MW-5		139.40	2.86	136.54		
MW-7D		140.14	3.53	136.61		
MW-9D		136.92	4.80	132.12		
MW-11D		139.41	1.96	137.45		
MW-13D		135.30	5.87	129.43		
MW-15D		137.22	4.99	132.23		

Table 2: Groundwater Flow Direction and Gradient for Deep Wells
4660 Hessel Road, Sebastopol

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-1	08/22/01	139.75	4.75	135.00	N5°E i = 0.04
MW-3		137.79	3.82	133.97	
MW-5		139.40	5.07	134.33	
MW-7D		140.14	5.73	134.41	
MW-9D		136.92	6.78	130.14	
MW-11D		139.41	4.08	135.33	
MW-13D		135.30	5.99	129.31	
MW-15D		137.22	6.88	130.34	
MW-1	11/26/01	139.75	2.80	136.95	North i = 0.03
MW-3		137.79	1.92	135.87	
MW-5		139.40	3.40	136.00	
MW-7D		140.14	4.10	136.04	
MW-9D		136.92	3.71	133.21	
MW-11D		139.41	2.13	137.28	
MW-13D		135.30	3.49	131.81	
MW-15D		137.22	4.30	132.92	
MW-1	02/25/02	139.75	0.68	139.07	N35°E i = 0.03
MW-3		137.79		Artesian conditions	
MW-5		139.40	0.60	138.80	
MW-7D		140.14	1.16	138.98	
MW-9D		136.92	1.55	135.37	
MW-11D		139.41	0.12	139.29	
MW-13D		135.30	0.57	134.73	
MW-15D		137.22	2.50	134.72	
MW-1	05/29/02	139.75	1.91	137.84	N to NE i = 0.02
MW-3		137.79	1.20	136.59	
MW-5		139.40	2.36	137.04	
MW-7D		140.14	3.0	137.14	
MW-9D		136.92	3.14	133.78	
MW-11D		139.41	1.23	138.18	
MW-13D		135.30	2.65	132.65	
MW-15D		137.22	3.93	133.29	
MW-1	08/26/02	139.75	4.25	135.50	N to NE i = 0.02
MW-3		137.79	3.45	134.34	
MW-5		139.40	4.96	134.44	
MW-7D		140.14	5.59	134.55	
MW-9D		136.92	6.41	130.51	
MW-11D		139.41	3.60	135.81	
MW-13D		135.30	5.10	130.20	
MW-15D		137.22	6.05	131.17	
MW-1	11/19/02	139.75	4.08	135.67	N to NE i = 0.02
MW-3		137.79	2.93	134.86	
MW-5		139.40	4.36	135.04	
MW-7D		140.14	4.99	135.15	
MW-9D		136.92	4.81	132.11	
MW-11D		139.41	2.97	136.44	
MW-13D		135.30	4.96	130.34	
MW-15D		137.22	5.57	131.65	

Table 2: Groundwater Flow Direction and Gradient for Deep Wells
4660 Hessel Road, Sebastopol

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-1	02/18/03	139.75	1.03	138.72	Apparent N-NE Gradient not calculated
MW-3		137.79		Artesian conditions encountered	
MW-5		139.40	0.07	139.33	
MW-7D		140.14	1.24	138.90	
MW-9D		136.92	2.92	134.00	
MW-11D		139.41	0.20	139.21	
MW-13D		135.30	0.50	134.80	
MW-15D		137.22	2.27	134.95	
MW-1	05/14/03	139.75	1.19	138.56	N-NE i = 0.02
MW-3		137.79	0.15	137.64	
MW-5		139.40	1.08	138.32	
MW-7D		140.14	1.66	138.48	
MW-9D		136.92	0.50	136.42	
MW-11D		139.41	0.38	139.03	
MW-13D		135.30	1.15	134.15	
MW-15D		137.22	2.86	134.36	
MW-1	08/20/03	139.75	3.90	135.85	N-NE i = 0.02
MW-3		137.79	2.99	134.80	
MW-5		139.40	4.42	134.98	
MW-7D		140.14	5.03	135.11	
MW-9D		136.92	5.93	130.99	
MW-11D		139.41	3.14	136.27	
MW-13D		135.30	4.60	130.70	
MW-15D		137.22	5.67	131.55	
MW-1	11/20/03	139.75	3.93	135.82	N-NE i = 0.02
MW-3		137.79	2.77	135.02	
MW-5		139.40	4.15	135.25	
MW-7D		140.14	4.78	135.36	
MW-9D		136.92	6.98	129.94	
MW-11D		139.41	3.13	136.28	
MW-13D		135.30	4.81	130.49	
MW-15D		137.22	5.36	131.86	
MW-1	3/2/2004*	135.69	1.00	134.69	Northerly i = 0.04
MW-3		133.75	1.65	132.10	
MW-5		135.36	0.30	135.06	
MW-7D		136.08	1.40	134.68	
MW-9D		132.88	4.40	128.48	
MW-11D		135.35	1.05	134.30	
MW-13D		131.28		Artesian conditions	
MW-15D		133.19	2.69	130.50	
MW-17D		137.84	1.60	136.24	
MW-19D		137.05	1.10	135.95	

* Previously existing wells were re-surveyed and new wells were surveyed to msl on February 26 and March 4, 2004

Table 2: Groundwater Flow Direction and Gradient for Deep Wells
4660 Hessel Road, Sebastopol

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)	
MW-1	06/07/04	135.69	2.79	132.90	N-NE i = 0.04	
MW-3		133.75	2.01	131.74		
MW-5		135.36	3.24	132.12		
MW-7D		136.08	3.85	132.23		
MW-9D		132.88	7.67	125.21		
MW-11D		135.35	2.18	133.17		
MW-13D		131.28	3.42	127.86		
MW-15D		133.19	4.55	128.64		
MW-17D		137.84	4.26	133.58		
MW-19D		137.05	3.73	133.32		
MW-1	09/02/04	135.69	4.24	131.45	Northerly i = 0.03	
MW-3		133.75	2.98	130.77		
MW-5		135.36	4.20	131.16		
MW-7D		136.08	4.78	131.30		
MW-9D		132.88	11.58	121.30		
MW-11D		135.35	3.49	131.86		
MW-13D		131.28	5.21	126.07		
MW-15D		133.19	6.01	127.18		
MW-17D		137.84	4.16	133.68		
MW-19D		137.05	4.07	132.98		
MW-1	01/04/05	135.69	0.76	134.93	Northerly i = 0.03	
MW-3		133.75	Artesian conditions			
MW-5		135.36	0.11	135.25		
MW-7D		136.08	1.00	135.08		
MW-9D		132.88	3.93	128.95		
MW-11D		135.35	0.31	135.04		
MW-13D		131.28	0.52	130.76		
MW-15D		133.19	1.18	132.01		
MW-17D		137.84	1.57	136.27		
MW-19D		137.05	1.34	135.71		
MW-1	03/22/05	135.69	1.39	134.30	N-NW i = 0.02	
MW-3		133.75	Artesian conditions			
MW-5		135.36	0.86	134.50		
MW-7D		136.08	2.20	133.88		
MW-9D		132.88	7.12	125.76		
MW-11D		135.35	1.03	134.32		
MW-13D		131.28	0.20	131.08		
MW-15D		133.19	2.66	130.53		
MW-17D		137.84	1.14	136.70		
MW-19D		137.05	2.01	135.04		

Table 3: Domestic Well Analytical Results
4660 Hessel Road, Sebastopol

ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	Other VOCs
		ug/L									
DW-1	08/09/99	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	10/20/99	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	02/28/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	08/22/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	02/26/02	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	08/27/02	NA	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
	02/19/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/21/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
	03/03/04	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DW-HD	01/04/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/09/99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/20/99	<50	<50	120	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	02/26/02	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	Well was dry										
	02/19/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0
	08/20/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
DW-HD2	03/03/04	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/09/99	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	10/20/99	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	02/28/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	08/22/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	02/26/02	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	08/26/02	NA	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
	02/19/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/21/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	NA	<0.5	<0.5
	03/02/04	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DW-3	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/04/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/09/99	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	2.2	<0.5	NA
	10/20/99	<50	<50	<100	0.45	<0.3	<0.5	<0.5	4.9	<0.5	NA
	01/11/00	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	2.6	<0.5	NA
	01/17/00*	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	2.2	<0.5	NA
	04/18/00 INF	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	1.0	<0.5	NA
	04/18/00 EFF	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	1.0	<0.5	NA
	07/26/00	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	2.0	<0.5	NA
	11/27/00	<50	<50	<100	0.31	<0.3	<0.5	<0.5	3.2	<0.5	NA
	02/28/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	08/22/01	No access - Property owner not home									NA
	11/26/01	No access - Property owner not home									NA
	02/25/02	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	0.7	<0.5	NA
	08/26/02	NA	NA	NA	<0.3	<0.3	<0.5	<0.5	2.1	<0.5	<0.5
	02/19/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/21/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
	03/02/04	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/04/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

* Confirmation sampling of January 11, 2000 detections.

Table 3: Domestic Well Analytical Results
4660 Hessel Road, Sebastopol

ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	Other VOCs
		ug/L									
DW-4	08/09/99	190	NA	NA	<0.3	<0.3	<0.5	3.0	11	<0.5	NA
	10/20/99	500	<50	<100	50	1.3	2.9	23	20	<0.5	NA
	01/11/00	67	<50	<100	<0.3	<0.3	<0.5	2.6	7.1	<0.5	NA
	01/17/00*	83	NA	NA	1.0	<0.3	<0.5	<0.5	7.1	<0.5	NA
	04/18/00	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	07/20/00	<50	<50	<100	2.3	<0.3	<0.5	<0.5	2.6	<0.5	NA
	11/27/00	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	02/28/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	08/22/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	02/26/02	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA
	08/26/02	NA	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
	02/19/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/21/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
	03/02/04	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/04/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DW-4615	08/26/02	NA	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
	02/19/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	05/15/03	NA	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
	08/21/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
	11/21/03	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/02/04	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	06/07/04	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/04/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/24/05	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DW-MB	02/19/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/04/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Note: Analysis for TPH-g, TPH-d, and TPH-mo removed from analytical suite with regulatory concurrence in August 20, 2002 letter.

* Confirmation sampling of January 11, 2000 contaminant hits.

**Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol**

**Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol**

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

ID	Date	TPH ^g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	DIPE	ETBE	TAME	TBA	n-butylbenzene	sec-butylbenzene	Methyl ethyl ketone	Styrene	isopropylbenzene	p-isopropyltoluene	naphthalene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Chloroform					
		ug/L																												
MW-3	07/12/99	180	<50	<100	25	3.8	5.9	20	0.58	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
	10/20/99	<50	<50	<100	0.32	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA				
	01/11/00	<50	<50	<100	0.90	0.61	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA				
	04/18/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
	07/20/00	<50	<50	<200	<0.5	<0.5	<0.5	<1.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	11/27/00	<50	<50	<100	3.1	4.5	1.4	4.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	02/28/01	85	79	<100	4.0	9.0	1.6	6.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	05/29/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	08/24/01	<50	<50	<100	0.57	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	11/26/01	<50	<50	<100	0.34	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	02/26/02	<50	<50	<100	2.6	0.45	0.66	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	05/30/02	<50	<50	<200	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	08/27/02	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
	11/20/02	<50	NA	NA	0.4	<0.3	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
	02/19/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
	05/14/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
	08/20/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
	11/21/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	19	1.2	<1.0	<1.0	7.5	<1.0	8.6	<1.0	42	1.4	<1.0	
	03/03/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/07/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	01/04/05	<50	NA	NA	1.0	<1.0	<1.0	1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/22/05	<50	NA	NA	1.0	<1.0	<1.0	4.2	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	DIPE	ETBE	TAME	TBA	n-butylbenzene	sec-butylbenzene	Methyl ethyl ketone	Styrene	isopropylbenzene	p-isopropyltoluene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Chloroform		
		ug/L																								
MW-4	07/12/99	19000	3000	<100	4000	680	990	3200	57	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	10/20/99	38000	1200	<100	6100	330	1300	3100	<10	<10	<10	<10	<10	<10	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/11/00	30000	1200	<100	4100	350	550	1600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/18/00	30000	3300 ¹	ND	6600	750	1000	2700	80	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	07/20/00	19000	3,200 ¹	<200	4700	890	920	2200	62	<2.0	<2.0	<2.0	<2.0	<2.0	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	11/27/00	24000	2,000 ¹	<100	6700	330	1200	2400	67	<10	<10	<10	<10	<10	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	02/28/01	29000	3900	330	4200	410	830	2800	<50	<50	<50	<50	<50	<50	<500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	05/29/01	32000	1,400 ¹	<110	4200	490	920	2700	42	<5.0	<5.0	<5.0	<5.0	<5.0	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	08/24/01	14000	530 ¹	<110	2500	150	540	640	21	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	11/26/01	10000	410 ¹	<100	2100	70	90	800	16	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	02/26/02	23000	1,100 ¹	<100	3200	<150	440	860	<250	<250	<250	<250	<250	<250	<5,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	05/30/02	7400	1,000 ¹	<200	2400	40	390	290	<50	<50	<50	<50	<50	<50	<1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	08/27/02	10000	NA	NA	3500	6.6	540	9.8	23	<0.5	NA	NA	NA	NA	8.8	4.3	<1.0	<0.5	21	2.4	11	51	100	1.2	<0.5	
	11/19/02	9100	NA	NA	3300	9.2	380	26	23	<0.5	NA	NA	NA	NA	6.3	2.8	<1.0	<0.5	18	1.4	13	45	46	2.1	<0.5	
	02/19/03	3100	NA	NA	910	<25	120	<25	<25	<25	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	29	<1.0	<1.0	<1.0	
	05/15/03	3300	NA	NA	800	<15	110	<25	<25	<25	NA	NA	NA	NA	<25	<25	<50	<25	<25	<25	<25	36	<25	<25	<25	
	08/21/03	1400	NA	NA	35	<3.0	80	<5.0	9.1	<5.0	NA	NA	NA	NA	<5.0	<5.0	<5.0	<10	<5.0	9.7	<5.0	<5.0	27	<5.0	<5.0	<5.0
	11/20/03	1300	NA	NA	85	2.3	36	19.2	11	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	03/03/04	670	NA	NA	8.1	<1.0	7.6	<1.0	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	4.4	<1.0	<1.0	11	<1.0	<1.0	<1.0
	06/08/04	460	NA	NA	1.6	<1.0	1.4	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	5.9	<1.0	<1.0	<1.0
	09/02/04	350	NA	NA	1.3	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	01/05/05	540	NA	NA	5.1	<1.0	<1.0	<1.0	3	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	
	03/22/05	540	NA	NA	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	

¹ According to the laboratory report, results in the diesel organics range are primarily due to overlap from a gasoline range product.

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4660 Hessel Road, Sebastopol

ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	DIPE	ETBE	TAME	TBA	n-butylbenzene	sec-butylbenzene	Methyl ethyl ketone	Styrene	isopropylbenzene	p-isopropyltoluene	naphthalene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Chloroform		
		ug/L																									
MW-5	07/12/99	1,200	ND ²	<100	13	0.89	19	7.3	0.92	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	10/20/99	760	58	<100	0.86	0.34	34	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/11/00	<50	<50	<100	1.1	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/18/00	ND	ND ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	07/20/00	<50	170 ¹	<200	0.84	0.54	1.1	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	11/27/00	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	02/28/01	<50	54	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	05/29/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	08/22/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	11/26/01	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	02/25/02	<50	<50	<100	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	05/29/02	<50	<50	<200	<0.5	0.59	<0.5	<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	08/26/02	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/19/02	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	02/19/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	05/14/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/20/03	<50	NA	NA	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/20/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/03/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	06/07/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/04/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/22/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

¹ According to the laboratory report, results in the diesel organics range are primarily due to overlap from a gasoline range product.

² Also ND for TPH-k.

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4660 Hessel Road, Sebastopol

ID	Date	TPH ^g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	DIPPE	ETBE	TAME	TBA	n-butylbenzene	sec-butylbenzene	Methyl ethyl ketone	Styrene	isopropylbenzene	p-isopropyltoluene	naphthalene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Chloroform	
		ug/L																								
MW-6	07/12/99	<50	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/20/99	<50	<50	<100	0.38	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/11/00	650	150	<100	6.7	<0.3	8.3	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/18/00	240	200	ND	4.7	1.1	3.6	3.2	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00	230	170 ¹	ND	1.4	<0.5	1.8	1.4	<2.0	<2.0	<2.0	<2.0	<2.0	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/27/00	220	59 ¹	<100	1.6	3.1	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/28/01	240	120	<100	1.0	<0.3	4.9	2.9	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/29/01	590	120 ¹	<100	36	<0.3	21	1.6	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/22/01	170	110 ¹	<100	9.0	<0.3	6.0	<0.5	<0.5	0.99	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/01	390	<50	<100	3.5	<0.3	5.6	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	<0.5	<0.5	<0.5	
	02/25/02	280	95 ¹	<100	1.3	<0.3	7.5	2.6	<0.5	0.64	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/29/02	110	55 ¹	<200	1.5	0.88	3.3	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/26/02	910	NA	NA	8.6	<0.3	29	3.2	3.5	<0.5	NA	NA	NA	NA	<0.5	2.2	<1.0	<0.5	4.8	0.92	3.7	8.3	2.8	2.5	<0.5	
	11/19/02	950	NA	NA	8.8	0.38	19	1.6	2.6	<0.5	NA	NA	NA	NA	<0.5	1.7	1.3	<0.5	4.1	<0.5	4.5	5.3	1.2	0.62	<0.5	
	02/19/03	780	NA	NA	8.6	<1.0	5.7	2.5	<1.0	<1.0	NA	NA	NA	NA	<1.0	1.0	<1.0	<1.0	3.5	<1.0	8.8	2.4	3.5	2.2	<1.0	
	05/15/03	210	NA	NA	1.1	<0.3	4.4	1.5	<0.5	<0.5	NA	NA	NA	NA	0.9	2.0	2.1	<0.5	0.96	<0.5	2.4	1.7	2.5	1.7	<0.5	
	08/21/03	640	NA	NA	5.0	<0.3	17	3.4	<0.5	<0.5	NA	NA	NA	NA	1.2	0.81	<1.0	<0.5	2.4	<0.5	4.9	5.0	3.6	3.3	<0.5	
	11/20/03	1300	NA	NA	13	<1.0	27	3.9	<1.0	<1.0	<1.0	<1.0	<1.0	<25	11	2.1	<1.0	<1.0	9.7	<1.0	22	<1.0	5.1	7.8	<1.0	
	03/03/04	170	NA	NA	<1.0	<1.0	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	1.2	1.0	<1.0	
	06/08/04	120	NA	NA	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	1.0	<1.0	<1.0	
	09/02/04	150	NA	NA	<1.0	<1.0	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	01/04/05	260	NA	NA	<1.0	<1.0	2.5	1.0	<1.0	1.2	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	
	03/22/05	270	NA	NA	<1.0	<1.0	2.4	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	1.1	<1.0	<1.0	

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ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	DIPE	ETBE	TAME	TBA	n-butylbenzene	sec-butylbenzene	Methyl ethyl ketone	Styrene	isopropylbenzene	p-isopropyltoluene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Chloroform		
		ug/L																								
MW-12	11/27/00	67,000	4,900	<100	2,100	14,000	1,700	8,800	<50	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	02/28/01	33,000	1,800	160	1,500	5,700	630	3,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	05/29/01	64,000	2,900 ¹	<100	2,200	7,200	1,000	5,300	19	<5.0	<5.0	<5.0	<5.0	<5.0	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/24/01	59,000	2,500 ¹	<100	1,700	8,200	1,500	7,400	<50	<50	<50	<50	<50	<50	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/27/01	40,000	800	<100	640	5,300	820	3,600	2.8	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/26/02	23,000	1,400 ¹	<100	1,600	760	660	1,300	<250	<250	<250	<250	<250	<250	<5,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/30/02	16,000	2,000 ¹	<200	2,300	280	790	1,600	<50	<50	<50	<50	<50	<50	<1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/27/02	28,000	NA	NA	2,300	280	2,200	4,000	12	<5.0	NA	NA	NA	NA	<5.0	18	12	7	74	16	730	250	2,600	520	<5.0	
	11/20/02	28,000	NA	NA	1,000	200	940	1,700	<0.5	<0.5	NA	NA	NA	NA	20	7.9	<1.0	<0.5	45	4.1	420	88	<0.5	260	<0.5	
	02/19/03	14,000	NA	NA	1,200	200	680	920	<25	<25	NA	NA	NA	NA	<25	<25	<25	<25	29	<25	300	94	650	210	<25	
	05/15/03	16,000	NA	NA	2,200	250	1,100	900	<50	<50	NA	NA	NA	NA	<50	<50	<100	<50	78	<50	500	140	950	300	<50	
	08/21/03	18,000	NA	NA	840	340	790	1,200	<250	<250	NA	NA	NA	NA	<250	<250	<500	<250	<250	<250	300	<250	980	270	<250	
	11/21/03	16,000	NA	NA	790	380	810	706	<20	<20	<20	<20	<20	<20	<500	130	<20	<20	<20	37	<20	350	<20	1,100	290	<20
	03/04/04	7,800	NA	NA	710	180	490	442	<10	<10	<10	<10	<10	<10	<250	<10	<10	<10	<10	26	<10	180	89	700	180	<10
	06/08/04	7,600	NA	NA	960	820	1,200	1,940	<10	<25	<25	<25	<25	<25	<500	<25	<25	<25	<25	60	<25	480	210	1,600	440	<25
	09/02/04	11,000	NA	NA	460	720	670	1,185	<25	<25	<25	<25	<25	<25	<500	<25	<25	<25	<25	36	<25	270	140	1,100	300	<25
	01/05/05	5,500	NA	NA	100	41	130	112	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<50	<2.0	3.0	<2.0	<2.0	9.2	3.8	62	36	240	65	<2.0
	03/22/05	8,800	NA	NA	21	5.8	39	31	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	7.1	<5.0	<5.0	<5.0	<5.0	26	18	110	30	<5.0	

¹ According to the laboratory report, results in the diesel organics range are primarily due to overlap from a gasoline range product.

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

ID	Date	TPH ^g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	DIPE	ETBE	TAME	TBA	n-butylbenzene	sec-butylbenzene	Methyl ethyl ketone	Styrene	isopropylbenzene	p-isopropyltoluene	naphthalene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Chloroform	
		ug/L																								
MW-13D	11/27/00	150	<50	<100	36	0.55	1.1	1.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/28/01	360	65	<100	110	<0.3	<0.5	<0.5	10	<0.5	<0.5	<0.5	<0.5	<0.5	<10	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/29/01	390	<50	<100	100	<0.3	<0.5	<0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/22/01	330 ³	<50	<100	79	<0.3	<0.5	<0.5	15	<0.5	<0.5	<0.5	<0.5	<0.5	<15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/01	300	<50	<100	67	<0.3	<0.5	0.5	17	<0.5	<0.5	<0.5	<0.5	<0.5	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/25/02	190	<50	<100	45	1.6	0.58	<0.5	16	<0.5	<0.5	<10	<0.5	<0.5	<26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/29/02	72	<50	<200	34	<0.5	<0.5	<1.5	15	<1.0	<1.0	<1.0	<1.0	<1.0	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/26/02	130	NA	NA	20	<0.3	<0.5	<0.5	19	<0.5	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/19/02	130	NA	NA	8.8	<0.3	<0.5	<0.5	22	<0.5	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	02/19/03	73	NA	NA	5.7	<1.0	<1.0	<1.0	15	<1.0	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	05/15/03	<50	NA	NA	1.4	<0.3	<0.5	<0.5	19	<0.5	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/21/03	53	NA	NA	0.5	0.77	<0.5	1.4	11	<0.5	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/20/03	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	16	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	03/02/04	51	NA	NA	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/08/04	100	NA	NA	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	01/04/05	65	NA	NA	<1.0	<1.0	<1.0	<1.0	2.1	9.8	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0
	03/22/05	85	NA	NA	<1.0	<1.0	<1.0	<1.0	9.7	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	

³ According to laboratory report, gasoline results are primarily due to the presence of benzene.

**Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol**

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

ID	Date	TPH-g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	DIPE	ETBE	TAME	TBA	n-butylbenzene	sec-butylbenzene	Methyl ethyl ketone	Styrene	isopropylbenzene	p-isopropyltoluene	naphthalene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Chloroform	
		ug/L																								
MW-15D	11/27/00	32,000	2,600	<100	5,900	490	1,200	3,100	91	<25	<25	<25	<25	<500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	02/28/01	39,000	2,900	<100	7,500	510	1500	3,500	96	<0.5	<0.5	<0.5	<0.5	<0.5	650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	05/29/01	39,000	840 ¹	<100	6,000	360	940	2,100	80	<5.0	<5.0	<5.0	<5.0	<5.0	330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	08/24/01	45,000	1,700 ¹	<100	6,900	410	1,300	2,900	99	<50	<50	<50	<50	<1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	11/26/01	42,000	1700	<100	7900	520	1600	3,600	120	<50	<50	<50	<50	<1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	02/26/02	35,000	1,800 ¹	<100	4,800	<300	710	1,300	<500	<500	<500	<500	<500	<500	10,000 ²	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/30/02	14,000	1,300 ¹	<200	4,600	220	680	1,300	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/27/02	32,000	NA	NA	4,300	310	840	1,300	81	<50	NA	NA	NA	NA	<5.0	9.4	<5.0	<5.0	37	8.8	320	110	550	240	<5.0	
	11/20/02	32,000	NA	NA	4,100	260	660	1,900	67	<10	NA	NA	NA	NA	12	11	<20	<10	29	<10	360	79	590	180	<10	
	12/30/02 ⁴	15,000	NA	NA	3,700	86	81	310	69	<0.5	NA	NA	NA	NA	1.4	0.65	<1.0	<0.5	1.4	<0.5	5.1	2.1	48	32	<0.5	
	02/19/03	17,000	NA	NA	4,200	200	660	1200	64	<1.0	NA	NA	NA	NA	<50	<50	<50	<50	<50	<50	170	53	330	130	<50	
	05/15/03	17,000	NA	NA	5300	200	820	1,000	64	<0.5	NA	NA	NA	NA	<50	<50	<100	<50	57	<50	220	79	280	130	<50	
	08/21/03	27,000	NA	NA	4300	200	740	1300	<250	<250	NA	NA	NA	NA	<250	<250	<500	<250	<250	<250	<250	<250	<250	<250	<250	
	11/21/03	14,000	NA	NA	4300	190	810	610	<50	<50	<50	<50	<50	<50	<1,000	<50	<50	<50	<50	<50	230	68	470	150	<50	
	03/04/04	11,000	NA	NA	3800	180	660	1,153	50	<50	<50	<50	<50	<50	<1,000	<50	<50	<50	<50	<50	210	74	380	140	<50	
	06/08/04	9,100	NA	NA	3200	120	580	870	<50	<50	<50	<50	<50	<50	<1,000	<50	<50	<50	<50	<50	180	<50	290	110	<50	
	09/02/04	9,700	NA	NA	4,400	180	850	1,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	190	68	470	150	<1.0	
	01/04/05	17,000	NA	NA	4,100	140	750	910	<50	<50	<50	<50	<50	<50	<1,000	<50	<50	<50	<50	<50	210	60	360	140	<50	
	03/22/05	22,000	NA	NA	3,500	320	700	1,520	<50	<50	<50	<50	<50	<50	<1,200	<50	<50	<50	<50	<50	76	520	160	<50		

¹ According to the laboratory report, results in the diesel organics range are primarily due to overlap from a gasoline range product.

⁴ Confirmation sample collected on December 30, 2002, as the sample collected on November 20, 2002 was inadvertently collected from MW-15D and labeled as MW-16.

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

ID	Date	TPH ^g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	DIPE	ETBE	TAME	TBA	n-butylbenzene	sec-butylbenzene	Methyl ethyl ketone	Styrene	isopropylbenzene	p-isopropyltoluene	naphthalene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Chloroform	
		ug/L																								
MW-16	11/27/00	250	<50	<100	16	2.9	1.4	3.3	3.6	<0.5	<0.5	<0.5	<0.5	<0.5	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/28/01	300	60	<100	48	0.67	1.5	2.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/29/01	390	<50	<100	47	<0.3	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	<0.5	<0.5	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/24/01	550	<50	<100	29	<0.3	0.51	0.61	4.9	<0.5	<0.5	<0.5	<0.5	<0.5	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/01	370	73	<100	16	0.55	2	3.4	5.9	<0.5	<0.5	<0.5	<0.5	<0.5	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/26/02	150	<50	<100	15	<0.3	1.2	2.1	2.6	<0.5	<0.5	<0.5	<0.5	<0.5	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/30/02	72	<50	<200	9.9	0.52	1.6	2.4	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/27/02	140	NA	NA	7.3	0.4	1.3	1.3	2.8	<0.5	NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	0.67	<0.5	<0.5	<0.5	<0.5	0.79	<0.5	
	12/30/02 ⁴	200	NA	NA	5.9	<0.3	<0.5	1.2	5	<0.5	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	0.84	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	02/19/03	120	NA	NA	4.5	<1.0	<1.0	<1.0	2.7	<1.0	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	05/15/03	110	NA	NA	5.4	<0.3	<0.5	<0.5	2.7	<0.5	NA	NA	NA	NA	<0.5	<0.5	<1.0	<0.5	0.81	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/21/03	190	NA	NA	2.8	<1.5	<2.5	<2.5	3.8	<2.5	NA	NA	NA	NA	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
	11/21/03	190	NA	NA	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	03/03/04	150	NA	NA	1.5	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/08/04	180	NA	NA	<1.0	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/02/04	130	NA	NA	1.2	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	01/04/05	230	NA	NA	3.9	<1.0	<1.0	1.5	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	03/22/05	120	NA	NA	2.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	

⁴ Confirmation sample collected on December 30, 2002, as the sample collected on November 20, 2002 was inadvertently collected from MW-15D and labeled as MW-16.

Table 4: Monitoring Well Analytical Results
4660 Hessel Road, Sebastopol

ID	Date	TPH ^g	TPH-d	TPH-mo	B	T	E	X	EDC	MTBE	DIPPE	ETBE	TAME	TBA	n-butylbenzene	sec-butylbenzene	Methyl ethyl ketone	Styrene	isopropylbenzene	p-isopropyltoluene	naphthalene	n-propylbenzene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Chloroform	
		ug/L																								
MW-17D	03/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/08/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	01/04/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	03/22/05	450	NA	NA	2.0	27	6.6	43	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	4.6	1.5	16	3.7	<1.0		
MW-18	03/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/08/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	01/04/05	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	03/22/05	720	NA	NA	1.8	38	11	70	<1.0	<1.0	<1.0	<1.0	<1.0	<25	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	4.7	3.2	26	8.0	<1.0	
MW-19D	03/03/04	<50	NA	NA	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	8.5	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/08/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/02/04	<50	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	01/04/05	78	NA	NA	<1.0	2.2	<1.0	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	1.1	<1.0	<1.0	
	03/22/05	<50	NA	NA	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
MW-20	03/03/04	7,800	NA	NA	400	2,600	460	3,420	<25	<25	<25	<25	<25	<25	<500	<25	<25	<25	<25	26	<25	250	87	1,100	300	<25
	06/08/04	14,000	NA	NA	320	1,300	240	1,490	<25	<25	<25	<25	<25	<25	<600	<25	<25	<25	<25	<25	120	47	440	140	<25	
	09/02/04	16,000	NA	NA	340	1,700	350	1,830	<25	<25	<25	<25	<25	<25	<500	36	<25	<25	<25	<25	170	78	840	250	<25	
	01/04/05	15,000	NA	NA	330	1,100	150	1,470	<25	<25	<25	<25	<25	<25	<500	<25	<25	<25	<25	<25	140	51	590	180	<25	
	03/22/05	42,000	NA	NA	640	4,200	980	6,100	<25	<25	<25	<25	<25	<25	<600	75	<25	<25	<25	<25	65	<25	680	230	2,600	680

Note: TPH-d and TPH-mo removed from analytical suite for all wells with regulatory concurrence in August 20, 2002 letter.

¹ According to the laboratory report, results in the diesel organics range are primarily due to overlap from a gasoline range product.

² Also ND for TPH-k.

³ According to laboratory report, gasoline results are primarily due to the presence of benzene.

⁴ Confirmation sample collected on December 30, 2002, as the sample collected on November 20, 2002 was inadvertently collected from MW-15D and labeled as MW-16.

**Table 5: Surface Water Analytical Results
4660 Hessel Road, Sebastopol**

APPENDIX A

WELL PURGE RECORDS, DATED MARCH 22 AND 24, 2005

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW- 3

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-4

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW- 5

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW- 6

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW- 7D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW- 9D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-11D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-12

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-13D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-14

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-15D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-16

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-17D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-18

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-19D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 1st Quarter

WELL NUMBER

MW-20

APPENDIX B

Analytical Sciences report #5032405, dated April 5, 2005

Analytical Sciences report #5032404, dated April 8, 2005



Report Date: April 8, 2005

Kevin Coker
SCS Engineers
3645 Westwind Boulevard
Santa Rosa, CA 95403

LABORATORY REPORT

Project Name: **Hessel Rd.** **01203317.00**

Lab Project Number: **5032404**

This 37 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
29012	MW-5	TPH/Gasoline	ND	50
29013	MW-6	TPH/Gasoline	270	50
29014	MW-7D	TPH/Gasoline	ND	50
29015	MW-9D	TPH/Gasoline	ND	50
29016	MW-11D	TPH/Gasoline	ND	50
29017	MW-12	TPH/Gasoline	8,800	250
29018	MW-13D	TPH/Gasoline	85	50
29019	W-14	TPH/Gasoline	ND	50
29020	MW-15D	TPH/Gasoline	22,000	1,000
29021	MW-16	TPH/Gasoline	120	50
29022	MW-17D	TPH/Gasoline	450	50
29023	MW-18	TPH/Gasoline	720	50
29024	MW-19D	TPH/Gasoline	ND	50
29025	MW-20	TPH/Gasoline	42,000	500
29026	MW-3	TPH/Gasoline	ND	50
29027	MW-4	TPH/Gasoline	540	50

Date Sampled: 03/22/05, 03/24/05
Date Received: 03/24/05

Date Analyzed: 03/25/05
Method: EPA 5030/8015M

QC Batch #: 5423



Volatile Hydrocarbons by GC/MS in Water

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29012	MW-5	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromochloromethane	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM2)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM3)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM4)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29012	MW-5	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.5	108	70 – 130
toluene-d ₈ (20)	19.9	99.5	70 – 130
4-bromofluorobenzene (20)	18.3	91.5	70 – 130

Date Sampled: 03/24/05	Date Analyzed: 03/24/05	QC Batch #: 5422
Date Received: 03/24/05	Method: EPA 8260B	



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29013	MW-6	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromoform (THM2)	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM3)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM4)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	2.4	1.0
		m,p-xylene	1.4	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM5)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29013	MW-6	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	1.1	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	2.8	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	20.9	105	70 – 130
toluene-d ₈ (20)	19.9	99.5	70 – 130
4-bromofluorobenzene (20)	18.4	92.0	70 – 130

Date Sampled: 03/24/05	Date Analyzed: 03/25/05	QC Batch #: 5422
Date Received: 03/24/05	Method: EPA 8260B	



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28014	MW-7D	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromoform (THM2)	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM3)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM4)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM5)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
28014	MW-7D	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.2	106	70 – 130
toluene-d ₈ (20)	19.7	98.5	70 – 130
4-bromofluorobenzene (20)	17.9	89.5	70 – 130

Date Sampled: 03/24/05	Date Analyzed: 03/24/05	QC Batch #: 5422
Date Received: 03/24/05	Method: EPA 8260B	



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29015	MW-9D	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromochloromethane	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM2)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM3)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM4)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29015	MW-9D	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.1	106	70 – 130
toluene-d ₈ (20)	19.4	97.0	70 – 130
4-bromofluorobenzene (20)	18.6	93.0	70 – 130

Date Sampled: 03/24/05
Date Received: 03/24/05

Date Analyzed: 03/25/05
Method: EPA 8260B

QC Batch #: 5422



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29016	MW-11D	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromochloromethane	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM2)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM3)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM4)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29016	MW-11D	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.5	108	70 – 130
toluene-d ₈ (20)	19.8	99.0	70 – 130
4-bromofluorobenzene (20)	18.6	93.0	70 – 130

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Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29017	MW-12	dichlorodifluoromethane	ND	5.0
		chloromethane	ND	5.0
		vinyl chloride	ND	5.0
		chloroethane	ND	5.0
		bromomethane	ND	5.0
		trichlorofluoromethane	ND	5.0
		1,1-dichloroethene (1,1-DCE)	ND	5.0
		methylene chloride	ND	5.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	5.0
		1,1-dichloroethane (1,1-DCA)	ND	5.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	5.0
		2,2-dichloropropane	ND	5.0
		chloroform (THM1)	ND	5.0
		bromochloromethane	ND	5.0
		1,1,1-trichloroethane (TCA)	ND	5.0
		1,2-dichloroethane (EDC)	ND	5.0
		1,1-dichloropropene	ND	5.0
		carbon tetrachloride	ND	5.0
		benzene	21	5.0
		trichloroethene (TCE)	ND	5.0
		1,2-dichloropropane (DCP)	ND	5.0
		dibromomethane	ND	5.0
		bromodichloromethane (THM2)	ND	5.0
		cis-1,3-dichloropropene	ND	5.0
		toluene	5.8	5.0
		1,1,2-trichloroethane	ND	5.0
		1,3-dichloropropane	ND	5.0
		dibromochloromethane (THM3)	ND	5.0
		tetrachloroethene (PCE)	ND	5.0
		1,2-dibromoethane (EDB)	ND	5.0
		chlorobenzene	ND	5.0
		1,1,1,2-tetrachloroethane	ND	5.0
		ethyl benzene	39	5.0
		m,p-xylene	31	5.0
		styrene	ND	5.0
		o-xylene	ND	5.0
		bromoform (THM4)	ND	5.0
		1,1,2,2-tetrachloroethane	ND	5.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29017	MW-12	isopropyl benzene	ND	5.0
		1,2,3-trichloropropane	ND	5.0
		bromobenzene	ND	5.0
		n-propyl benzene	18	5.0
		2-chlorotoluene	ND	5.0
		4-chlorotoluene	ND	5.0
		1,3,5-trimethylbenzene	30	5.0
		tert-butylbenzene	ND	5.0
		1,2,4-trimethylbenzene	110	5.0
		sec-butylbenzene	ND	5.0
		1,3-dichlorobenzene	ND	5.0
		1,4-dichlorobenzene	ND	5.0
		1,2-dichlorobenzene	ND	5.0
		p-isopropyltoluene	ND	5.0
		n-butylbenzene	7.1	5.0
		1,2,4-trichlorobenzene	ND	5.0
		naphthalene	26	5.0
		hexachlorobutadiene	ND	5.0
		1,2,3-trichlorobenzene	ND	5.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	100
methyl tert-butyl ether (MTBE)	ND	5.0
di-isopropyl ether (DIPE)	ND	5.0
ethyl tert-butyl ether (ETBE)	ND	5.0
tert-amyl methyl ether (TAME)	ND	5.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	20.8	104	70 – 130
toluene-d ₈ (20)	18.8	94.0	70 – 130
4-bromofluorobenzene (20)	17.7	88.5	70 – 130

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Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29018	MW-13D	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromochloromethane	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	9.7	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM2)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM3)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM4)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29018	MW-13D	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.3	107	70 – 130
toluene-d ₈ (20)	20.1	101	70 – 130
4-bromofluorobenzene (20)	18.1	90.5	70 – 130

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Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29019	MW-14	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromoform (THM2)	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM3)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM4)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	2.2	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM5)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29019	MW-14	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.1	106	70 – 130
toluene-d ₈ (20)	19.6	98.0	70 – 130
4-bromofluorobenzene (20)	18.5	92.5	70 – 130

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Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29020	MW-15D	dichlorodifluoromethane	ND	50
		chloromethane	ND	50
		vinyl chloride	ND	50
		chloroethane	ND	50
		bromomethane	ND	50
		trichlorofluoromethane	ND	50
		1,1-dichloroethene (1,1-DCE)	ND	50
		methylene chloride	ND	50
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	50
		1,1-dichloroethane (1,1-DCA)	ND	50
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	50
		2,2-dichloropropane	ND	50
		chloroform (THM1)	ND	50
		bromoform (THM2)	ND	50
		1,1,1-trichloroethane (TCA)	ND	50
		1,2-dichloroethane (EDC)	ND	50
		1,1-dichloropropene	ND	50
		carbon tetrachloride	ND	50
		benzene	3,500	50
		trichloroethene (TCE)	ND	50
		1,2-dichloropropane (DCP)	ND	50
		dibromomethane	ND	50
		bromodichloromethane (THM2)	ND	50
		cis-1,3-dichloropropene	ND	50
		toluene	320	50
		1,1,2-trichloroethane	ND	50
		1,3-dichloropropane	ND	50
		dibromochloromethane (THM3)	ND	50
		tetrachloroethene (PCE)	ND	50
		1,2-dibromoethane (EDB)	ND	50
		chlorobenzene	ND	50
		1,1,1,2-tetrachloroethane	ND	50
		ethyl benzene	700	50
		m,p-xylene	1,300	50
		styrene	ND	50
		o-xylene	220	50
		bromoform (THM4)	ND	50
		1,1,2,2-tetrachloroethane	ND	50



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29020	MW-15D	isopropyl benzene	ND	50
		1,2,3-trichloropropane	ND	50
		bromobenzene	ND	50
		n-propyl benzene	76	50
		2-chlorotoluene	ND	50
		4-chlorotoluene	ND	50
		1,3,5-trimethylbenzene	160	50
		tert-butylbenzene	ND	50
		1,2,4-trimethylbenzene	520	50
		sec-butylbenzene	ND	50
		1,3-dichlorobenzene	ND	50
		1,4-dichlorobenzene	ND	50
		1,2-dichlorobenzene	ND	50
		p-isopropyltoluene	ND	50
		n-butylbenzene	ND	50
		1,2,4-trichlorobenzene	ND	50
		naphthalene	ND	50
		hexachlorobutadiene	ND	50
		1,2,3-trichlorobenzene	ND	50

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	1,200
methyl tert-butyl ether (MTBE)	ND	50
di-isopropyl ether (DIPE)	ND	50
ethyl tert-butyl ether (ETBE)	ND	50
tert-amyl methyl ether (TAME)	ND	50

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.4	107	70 – 130
toluene-d ₈ (20)	19.2	96.0	70 – 130
4-bromofluorobenzene (20)	18.1	90.5	70 – 130

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Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29021	MW-16	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromochloromethane	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	2.5	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	2.0	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM2)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM3)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM4)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29021	MW-16	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.3	107	70 – 130
toluene-d ₈ (20)	20.0	100	70 – 130
4-bromofluorobenzene (20)	18.0	90.0	70 – 130

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Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29022	MW-17D	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromochloromethane	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	2.0	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM2)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	27	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM3)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	6.6	1.0
		m,p-xylene	31	1.0
		styrene	ND	1.0
		o-xylene	12	1.0
		bromoform (THM4)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29022	MW-17D	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	1.5	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	3.7	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	16	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	4.6	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	22.0	110	70 – 130
toluene-d ₈ (20)	19.8	99.0	70 – 130
4-bromofluorobenzene (20)	18.3	91.5	70 – 130

Date Sampled: 03/22/05	Date Analyzed: 03/24/05	QC Batch #: 5422
Date Received: 03/24/05	Method: EPA 8260B	



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29023	MW-18	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromochloromethane	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	1.8	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM2)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	38	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM3)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	11	1.0
		m,p-xylene	51	1.0
		styrene	ND	1.0
		o-xylene	19	1.0
		bromoform (THM4)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29023	MW-18	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	3.2	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	8.0	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	26	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	1.5	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	4.7	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.4	107	70 – 130
toluene-d ₈ (20)	20.3	102	70 – 130
4-bromofluorobenzene (20)	18.3	91.5	70 – 130

Date Sampled: 03/22/05	Date Analyzed: 03/24/05	QC Batch #: 5422
Date Received: 03/24/05	Method: EPA 8260B	



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29024	MW-19D	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromoform (THM2)	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM3)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM4)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	1.2	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM5)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29024	MW-19D	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.6	108	70 – 130
toluene-d ₈ (20)	19.6	98.0	70 – 130
4-bromofluorobenzene (20)	18.0	90.0	70 – 130

Date Sampled: 03/22/05	Date Analyzed: 03/25/05	QC Batch #: 5422
Date Received: 03/24/05	Method: EPA 8260B	



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29025	MW-20	dichlorodifluoromethane	ND	25
		chloromethane	ND	25
		vinyl chloride	ND	25
		chloroethane	ND	25
		bromomethane	ND	25
		trichlorofluoromethane	ND	25
		1,1-dichloroethene (1,1-DCE)	ND	25
		methylene chloride	ND	25
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	25
		1,1-dichloroethane (1,1-DCA)	ND	25
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	25
		2,2-dichloropropane	ND	25
		chloroform (THM1)	ND	25
		bromochloromethane	ND	25
		1,1,1-trichloroethane (TCA)	ND	25
		1,2-dichloroethane (EDC)	ND	25
		1,1-dichloropropene	ND	25
		carbon tetrachloride	ND	25
		benzene	640	25
		trichloroethene (TCE)	ND	25
		1,2-dichloropropane (DCP)	ND	25
		dibromomethane	ND	25
		bromodichloromethane (THM2)	ND	25
		cis-1,3-dichloropropene	ND	25
		toluene	4,200	50
		1,1,2-trichloroethane	ND	25
		1,3-dichloropropane	ND	25
		dibromochloromethane (THM3)	ND	25
		tetrachloroethene (PCE)	ND	25
		1,2-dibromoethane (EDB)	ND	25
		chlorobenzene	ND	25
		1,1,1,2-tetrachloroethane	ND	25
		ethyl benzene	980	25
		m,p-xylene	4,500	25
		styrene	ND	25
		o-xylene	1,900	25
		bromoform (THM4)	ND	25
		1,1,2,2-tetrachloroethane	ND	25



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29025	MW-20	isopropyl benzene	65	25
		1,2,3-trichloropropane	ND	25
		bromobenzene	ND	25
		n-propyl benzene	230	25
		2-chlorotoluene	ND	25
		4-chlorotoluene	ND	25
		1,3,5-trimethylbenzene	680	25
		tert-butylbenzene	ND	25
		1,2,4-trimethylbenzene	2,600	25
		sec-butylbenzene	ND	25
		1,3-dichlorobenzene	ND	25
		1,4-dichlorobenzene	ND	25
		1,2-dichlorobenzene	ND	25
		p-isopropyltoluene	ND	25
		n-butylbenzene	75	25
		1,2,4-trichlorobenzene	ND	25
		naphthalene	680	25
		hexachlorobutadiene	ND	25
		1,2,3-trichlorobenzene	ND	25

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	600
methyl tert-butyl ether (MTBE)	ND	25
di-isopropyl ether (DIPE)	ND	25
ethyl tert-butyl ether (ETBE)	ND	25
tert-amyl methyl ether (TAME)	ND	25

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	20.7	104	70 – 130
toluene-d ₈ (20)	19.0	95.0	70 – 130
4-bromofluorobenzene (20)	18.2	91.0	70 – 130

Date Sampled: 03/22/05	Date Analyzed: 03/25/05	QC Batch #: 5422
Date Received: 03/24/05	Method: EPA 8260B	



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29026	MW-3	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromoform (THM2)	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM3)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM4)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	3.2	1.0
		styrene	ND	1.0
		o-xylene	1.0	1.0
		bromoform (THM5)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29026	MW-3	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	1.5	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	22.0	110	70 – 130
toluene-d ₈ (20)	19.7	98.5	70 – 130
4-bromofluorobenzene (20)	18.6	93.0	70 – 130

Date Sampled: 03/24/05	Date Analyzed: 03/25/05	QC Batch #: 5422
Date Received: 03/24/05	Method: EPA 8260B	



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29027	MW-4	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromochloromethane	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	2.1	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM2)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM3)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM4)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29027	MW-4	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.1	106	70 – 130
toluene-d ₈ (20)	20.1	101	70 – 130
4-bromofluorobenzene (20)	17.9	89.5	70 – 130

Date Sampled: 03/24/05
Date Received: 03/24/05

Date Analyzed: 03/25/05
Method: EPA 8260B

QC Batch #: 5422



LABORATORY

QUALITY ASSURANCE REPORT

QC Batch #: 5423

Lab Project #: 5032404

Sample ID	Compound	Result (ug/L)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
29012	CMS	TPH/Gas		NS	
	CMS	Benzene	10.4	10.0	104
	CMS	Toluene	10.3	10.0	103
	CMS	Ethyl Benzene	10.6	10.0	106
	CMS	Xylenes	31.2	30.0	104

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
29012	CMSD	TPH/Gas		NS		
	CMSD	Benzene	10.3	10.0	103	1.7
	CMSD	Toluene	10.2	10.0	102	1.2
	CMSD	Ethyl Benzene	10.3	10.0	103	2.3
	CMSD	Xylenes	30.5	30.0	102	2.3

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



QC Batch #: 5422

Lab Project #: 5032404

Sample ID	Compound Name	Result (ug/L)
MB	1,1-dichloroethene	ND
MB	benzene	ND
MB	trichloroethene	ND
MB	toluene	ND
MB	chlorobenzene	ND

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.2	106	70 – 130
toluene-d ₈ (20)	20.3	102	70 – 130
4-bromofluorobenzene (20)	18.0	90.0	70 – 130

Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.
29016	CMS	1,1-dichloroethene	22.8	25.0	91.2
	CMS	benzene	24.0	25.0	96.0
	CMS	trichloroethene	22.1	25.0	88.4
	CMS	toluene	23.4	25.0	93.6
	CMS	chlorobenzene	24.4	25.0	97.6

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.2	106	70 – 130
toluene-d ₈ (20)	20.0	105	70 – 130
4-bromofluorobenzene (20)	18.0	90.0	70 – 130



Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.	RPD
29016	CMSD	1,1-dichloroethene	24.3	25.0	97.2	6.4
	CMSD	benzene	26.3	25.0	105	9.1
	CMSD	trichloroethene	23.3	25.0	93.2	5.3
	CMSD	toluene	26.4	25.0	106	12
	CMSD	chlorobenzene	27.1	25.0	108	10

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.7	109	70 – 130
toluene-d ₈ (20)	20.0	100	70 – 130
4-bromofluorobenzene (20)	18.4	92.0	70 – 130

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



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SANTA ROSA, CA 95403	Suburbopol, CA 95413		
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PHONE#: (707) 546-9461	FAX#:		
Fax #: (707) 544-5769			

LAB PROJECT NUMBER: 5C324D4	SCS ENGINEERS PROJECT NAME: Hesse Rd.
GLOBAL ID: 1000910318	SCS ENGINEERS PROJECT NUMBER: 0120 3317.00
RETURN TO DATE: <u>Checklist</u>	
MOBILE LAB	SAME DAY
24 HOURS	72 HOURS
48 HOURS	5 DAYS
NORMAL	X
COC	

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	ANALYSIS		COMMENTS	LAB SAMPLE #
							TPH/GAS/STK	TPH/DIESEL/		
1	MN-5	3-24-05	1015	LQ	4	Yes	X	X		X4012
2	MN-6	3-24-05	1035	LQ	4	Yes	X	X		24013
3	MN-7D	3-24-05	1126	LQ	4	Yes	X	X		24014
4	MN-9D	3-24-05	1145	LQ	4	Yes	X	X		24015
5	MN-11D	3-22-05	1205	LQ	4	Yes	X	X		24016
6	MN-12	3-24-05	1000	LQ	4	Yes	X	X		24017
7	MN-13D	3-24-05	1205	LQ	4	Yes	X	X		24018
8	MN-14	3-24-05	1215	LQ	4	Yes	X	X		24019
9	MN-15D	3-22-05	1135	LQ	4	Yes	X	X		24020
10	MN-16	3-22-05	1145	LQ	4	Yes	X	X		24021
11	MN-17D	3-22-05	130	LQ	4	Yes	X	X		24022

RELINQUISHED BY: <u>John Gandy</u> DATE: 3/24/05 TIME: 1248	RECEIVED BY LABORATORY: <u>J</u> DATE: 3/24/05 TIME: 1248
RECEIVED BY:	RELINQUISHED BY:
RECEIVED BY:	RELINQUISHED BY:
RECEIVED BY:	RELINQUISHED BY:



Report Date: April 5, 2005

Kevin Coker
SCS Engineers
3645 Westwind Boulevard
Santa Rosa, CA 95403

LABORATORY REPORT

Project Name: **Hessel Rd.** **01203317.00**

Lab Project Number: **5032405**

This 5 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



Volatile Hydrocarbons by GC/MS in Water

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29028	DW-4615	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		chloroethane	ND	1.0
		bromomethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene (1,1-DCE)	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene (trans-1,2-DCE)	ND	1.0
		1,1-dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-dichloroethene (cis-1,2-DCE)	ND	1.0
		2,2-dichloropropane	ND	1.0
		chloroform (THM1)	ND	1.0
		bromochloromethane	ND	1.0
		1,1,1-trichloroethane (TCA)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		1,1-dichloropropene	ND	1.0
		carbon tetrachloride	ND	1.0
		benzene	ND	1.0
		trichloroethene (TCE)	ND	1.0
		1,2-dichloropropane (DCP)	ND	1.0
		dibromomethane	ND	1.0
		bromodichloromethane (THM2)	ND	1.0
		cis-1,3-dichloropropene	ND	1.0
		toluene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		1,3-dichloropropane	ND	1.0
		dibromochloromethane (THM3)	ND	1.0
		tetrachloroethene (PCE)	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		styrene	ND	1.0
		o-xylene	ND	1.0
		bromoform (THM4)	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29028	DW-4615	isopropyl benzene	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		n-propyl benzene	ND	1.0
		2-chlorotoluene	ND	1.0
		4-chlorotoluene	ND	1.0
		1,3,5-trimethylbenzene	ND	1.0
		tert-butylbenzene	ND	1.0
		1,2,4-trimethylbenzene	ND	1.0
		sec-butylbenzene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0
		p-isopropyltoluene	ND	1.0
		n-butylbenzene	ND	1.0
		1,2,4-trichlorobenzene	ND	1.0
		naphthalene	ND	1.0
		hexachlorobutadiene	ND	1.0
		1,2,3-trichlorobenzene	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.0	105	70 – 130
toluene-d ₈ (20)	19.2	96.0	70 – 130
4-bromofluorobenzene (20)	18.1	90.5	70 – 130

Date Sampled: 03/24/05
Date Received: 03/24/05

Date Analyzed: 03/24/05, 03/25/05
Method: EPA 8260B

QC Batch #: 5422



LABORATORY

QUALITY ASSURANCE REPORT

QC Batch #: 5422

Lab Project #: 5032405

Sample ID	Compound Name	Result (ug/L)
MB	1,1-dichloroethene	ND
MB	benzene	ND
MB	trichloroethene	ND
MB	toluene	ND
MB	chlorobenzene	ND

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.2	106	70 – 130
toluene-d ₈ (20)	20.3	102	70 – 130
4-bromofluorobenzene (20)	18.0	90.0	70 – 130

Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.
29016	CMS	1,1-dichloroethene	22.8	25.0	91.2
	CMS	benzene	24.0	25.0	96.0
	CMS	trichloroethene	22.1	25.0	88.4
	CMS	toluene	23.4	25.0	93.6
	CMS	chlorobenzene	24.4	25.0	97.6

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.2	106	70 – 130
toluene-d ₈ (20)	20.0	105	70 – 130
4-bromofluorobenzene (20)	18.0	90.0	70 – 130



Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.	RPD
29016	CMSD	1,1-dichloroethene	24.3	25.0	97.2	6.4
	CMSD	benzene	26.3	25.0	105	9.1
	CMSD	trichloroethene	23.3	25.0	93.2	5.3
	CMSD	toluene	26.4	25.0	106	12
	CMSD	chlorobenzene	27.1	25.0	108	10

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.7	109	70 – 130
toluene-d ₈ (20)	20.0	100	70 – 130
4-bromofluorobenzene (20)	18.4	92.0	70 – 130

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



Analytical Sciences

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

CHAIN OF CUSTODY

12

12



CLIENT INFORMATION

COMPANY NAME: SCS ENGINEERS	BILLING INFORMATION		
ADDRESS: 3645 WESTWIND BOULEVARD SANTA ROSA, CA 95403	CONTACT: John Riddell	COMPANY NAME:	ADDRESS: 4660 Hessel Rd. Sebastopol, CA 95412
CONTACT: Vicki Coker	PHONE#: (707) 546-9461	FAX#:	PHONE#: 707-823-1976
Fax #: (707) 544-5769	Fax #:		

LAB PROJECT NUMBER:

5032495

SCS ENGINEERS PROJECT NAME: Hessel Rd.	SCS ENGINEERS PROJECT NUMBER: 0120 3317.00
RETURN TO DATE	
SAME DAY	24 HOURS
48 HOURS	72 HOURS
5 DAYS	NORMAL <input checked="" type="checkbox"/>
COC	

GEOTRACKER EDF: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
GLOBAL ID: T06970c318
COOLER TEMPERATURE

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	#	CONT.	PRESS. YES/NO	ANALYSIS		LAB SAMPLE #
								COMMENTS	LAB SAMPLE #	
1	DW-4615	3/24/05	11:35	LQ	4	4	Yes			26028
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

RELINQUISHED BY: <i>John Riddell</i>	DATE: 3/24/05	TIME: 1248
RECEIVED BY: <i>J</i>	DATE:	TIME:
RELINQUISHED BY: <i>J</i>	DATE:	TIME:
RECEIVED BY: <i>J</i>	DATE:	TIME:
	DATE: 3/24/05	TIME: 1248